

GenCore version 5.1.4 p5 4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 16.4815 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-40
Perfect score: 2626
Sequence: 1 YERLRVTHQTTCXEYFRF.....RRIIYPATGKPNQMLPVX 534

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep: *
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep: *
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep: *
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep: *
5: /cgn2_6/ptodata/2/iaa/PTUS_COMB.pep: *
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2504.5	95.4	564	4	US-08-776-059-35
2	1267.5	48.3	263	4	US-08-776-059-43
3	1267.5	48.3	264	4	US-08-776-059-33
4	1155	44.0	253	4	US-08-776-059-31
5	1101	41.9	540	1	US-08-378-761A-77
6	1101	41.9	540	1	US-08-485-286-77
7	1073	40.9	235	4	US-08-776-059-39
8	453.5	17.3	250	1	US-08-378-761A-71
9	453.5	17.3	250	1	US-08-485-286-71
10	403	15.3	534	2	US-08-356-786-10
11	376	14.3	267	1	US-07-901-707-1
12	376	14.3	267	1	US-07-988-430-1
13	376	14.3	267	1	US-08-218-303-16
14	376	14.3	267	1	US-08-425-336-1
15	376	14.3	267	1	US-08-488-113B-1
16	376	14.3	267	1	US-08-646-360-1
17	376	14.3	267	2	US-08-338-793D-61
18	376	14.3	267	2	US-08-839-765-1
19	376	14.3	267	4	US-09-136-389-1
20	376	14.3	267	4	US-09-610-838-1
21	376	14.3	267	5	US-09-610-838-1
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24	376	14.3	267	5	US-09-610-838-1
25	376	14.3	267	5	US-09-610-838-1
26	376	14.3	267	5	US-09-610-838-1
27	376	14.3	267	5	US-09-610-838-1
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56	376	14.3	267	5	US-09-610-838-1
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80	376	14.3	267	5	US-09-610-838-1
81	376	14.3	267	5	US-09-610-838-1
82	376	14.3	267	5	US-09-610-838-1
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97	376	14.3	267	5	US-09-610-838-1
98	376	14.3	267	5	US-09-610-838-1
99	376	14.3	267	5	US-09-610-838-1
100	376	14.3	267	5	US-09-610-838-1

28	301	11.5	267	1	US-08-378-761A-74	Sequence 74, Appl
29	301	11.5	267	1	US-08-485-286-74	Sequence 74, Appl
30	299	11.4	247	1	US-08-488-113B-6	Sequence 6, Appl
31	299	11.4	247	1	US-08-477-484B-6	Sequence 6, Appl
32	299	11.4	247	2	US-08-646-360-6	Sequence 6, Appl
33	299	11.4	247	4	US-08-839-765-6	Sequence 6, Appl
34	299	11.4	247	4	US-09-136-389-6	Sequence 6, Appl
35	299	11.4	247	4	US-09-610-838-6	Sequence 6, Appl
36	294	11.2	289	1	US-07-923-692C-4	Sequence 4, Appl
37	294	11.2	289	1	US-08-184-237-4	Sequence 4, Appl
38	294	11.2	289	2	US-08-482-920-4	Sequence 4, Appl
39	294	11.2	289	3	US-08-484-341-4	Sequence 4, Appl
40	294	11.2	289	4	US-08-483-502-4	Sequence 4, Appl
41	294	11.2	289	4	US-09-726-651A-4	Sequence 4, Appl
42	287.5	10.9	263	1	US-07-901-707-4	Sequence 4, Appl
43	287.5	10.9	263	1	US-07-988-430-4	Sequence 4, Appl
44	287.5	10.9	263	1	US-08-425-336-4	Sequence 4, Appl
45	287.5	10.9	263	1	US-08-488-113B-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgan
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-35

Query Match	95.4%	Score 2504.5	DB 4	Length 564
Best Local Similarity	91.7%	Pred. No. 2e-272		
Matches 489	Conservative	2	Mismatches 39	Indels 3
QY	1	YERLRVTHQTTCXEYFRF	ITLLRDYVSGSFSNEIPLLRQSTIPVSDAQRVFLVELTN	60
Db	34	YERLRVTHQTTCXEYFRF	ITLLRDYVSGSFSNEIPLLRQSTIPVSDAQRVFLVELTN	93
QY	61	QXDSXAAIDVTNXXVVAQAGDSYFLRDA	PRGAEHLFTGTTDRSLPFXGSYXDL	120
Db	94	QGGDSITAAIDVTNLYVVAQAGDSYFLRDA	PRGAEHLFTGTTDRSLPFXGSYXDL	151
QY	121	ERYAGHROIPGIXYQLQSVXALRXP	GGSTRTQARSILILIQMISEAARFNPILWRXQ	180
Db	152	ERYAGHROIPGIXYQLQSVXALRXP	GGSTRTQARSILILIQMISEAARFNPILWRXQ	211
QY	181	XINSGXFLPDYMLELTSNGQOSTVOHSTG	DVFNPNRLAIXXGNFVTLXNVXVIA	240
Db	212	YINGASFLPDYMLELTSNGQOSTVOHSTG	DVFNPNRLAIXXGNFVTLXNVXVIA	271
QY	241	SLATMLFVCGERPSSDVRVYPLVIRPVI	ADDTVCASEPTVIRVGRXGMVDRDDDFH	300
Db	272	SLATMLFVCGERPSSDVRVYPLVIRPVI	ADDTVCASEPTVIRVGRXGMVDRDDDFH	331
QY	301	DGNQIQWLPSKNNDPNQLTKEDXTIR	NSGSLTITGYTAGVYVMIFDCNTAVREATI	360

us-09-601-667c-40.ra1

Sat Mar 22 10:41:32 2003

```

; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
; US-08-776-059-33

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Query Match 48.3%; Score 1267.5; DB 4; Length 264;

Best Local Similarity 91.6%; Pred. No. 4.9e-134; Indels 1; Gaps 1;

Matches 241; Conservative 1; Mismatches 20; Mismatches 20; Indels 1; Gaps 1;

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QY 271 DDVTCASSEPTVRIVGRGXGXVDVDRDDHFDGNOIOLWPSKSNNDPNQWLTIKRDXTIRS 330
Db 2 DDVTCASSEPTVRIVGRGXGXVDVDRDDHFDGNOIOLWPSKSNNDPNQWLTIKRDXTIRS 61
QY 331 NGSLTTYGTAGVYVIMFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 390
Db 62 NGSLTTYGTAGVYVIMFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 121
QY 391 VOTLDYTLGGWLAGNDTAPREVTIYGRDLCHESNKGVSVMVETCXSSQXNXWALYGD 450
Db 122 VOTLDYTLGGWLAGNDTAPREVTIYGRDLCHESNKGVSVMVETCXSSQXNXWALYGD 180
QY 451 GSIRPKQNDQCLTXGRDSVSTVINIVSCSXXSQXQXRVFTNEXAILNLKXXXXVDAQA 510
Db 181 GSIRPKQNDQCLTXGRDSVSTVINIVSCSXXSQXQXRVFTNEXAILNLKXXXXVDAQA 240
QY 511 NPKLRRIIYPATGKPNQWMLPV 533
Db 241 NPKLRRIIYPATGKPNQWMLPV 263

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RESULT 4

US-08-776-059-31

; Sequence 31, Application US/08776059B

; Patent No. 6271368

; GENERAL INFORMATION:

; APPLICANT: ECK, Jurgen

; APPLICANT: BAUR, Axel

; APPLICANT: ZINKE, Holger

; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)

; FILE REFERENCE: 674503-2003

; CURRENT APPLICATION NUMBER: US/08/776,059B

; CURRENT FILING DATE: 1999-06-19

; EARLIER APPLICATION NUMBER: PCT/EP96/02273

; EARLIER FILING DATE: 1996-06-25

; EARLIER APPLICATION NUMBER: 95109949.8

; EARLIER FILING DATE: 1995-06-26

; NUMBER OF SEQ ID NOS: 56

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 31

; LENGTH: 253

; TYPE: PRT

; ORGANISM: Viscum album

; US-08-776-059-31

Query Match 44.0%; Score 1155; DB 4; Length 253;

Best Local Similarity 91.3%; Pred. No. 2e-121;

Matches 232; Conservative 1; Mismatches 19; Indels 2; Gaps 1;

QY 1 YEELRLRVHTQTCGEYFRFITLLRDYVSSGFSFNEIPLLROSTIPVSDAQRFLVELTN 60

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Db 332 DGNQIOLWPSKSNNDPNQWLTIKRDXTIRSNGSLTTYGTAGVYVIMFDCNTAVREATL 391
QY 361 WOIXWNGTIIINPRSNLVLAASSGIGKTTLTVOTLDYTLGGWLAGNDTAPREVTIYGRD 420
Db 392 WOIXWNGTIIINPRSNLVLAASSGIGKTTLTVOTLDYTLGGWLAGNDTAPREVTIYGRD 451
QY 421 LCMESNKGVSVMVETCXSSQXNXWALYGDGSIRPKQNDQCLTXGRDSVSTVINIVSCS 480
Db 452 LCMESNKGVSVMVETCXSSQXNXWALYGDGSIRPKQNDQCLTXGRDSVSTVINIVSCS 510
QY 481 XXSXXQXRVFTNEXAILNLKXXXXVDAQANPKLRRIIYPATGKPNQWMLPV 533
Db 511 AGSSGQXRVFTNEXAILNLKXXXXVDAQANPKLRRIIYPATGKPNQWMLPV 563

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RESULT 2

US-08-776-059-43

; Sequence 43, Application US/08776059B

; Patent No. 6271368

; GENERAL INFORMATION:

; APPLICANT: ECK, Jurgen

; APPLICANT: BAUR, Axel

; APPLICANT: ZINKE, Holger

; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)

; FILE REFERENCE: 674503-2003

; CURRENT APPLICATION NUMBER: US/08/776,059B

; CURRENT FILING DATE: 1999-06-19

; EARLIER APPLICATION NUMBER: PCT/EP96/02273

; EARLIER FILING DATE: 1996-06-25

; EARLIER APPLICATION NUMBER: 95109949.8

; EARLIER FILING DATE: 1995-06-26

; NUMBER OF SEQ ID NOS: 56

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 43

; LENGTH: 263

; TYPE: PRT

; ORGANISM: Viscum album

; US-08-776-059-43

Query Match 48.3%; Score 1267.5; DB 4; Length 263;

Best Local Similarity 91.6%; Pred. No. 4.9e-134; Indels 1; Gaps 1;

Matches 241; Conservative 1; Mismatches 20; Mismatches 20; Indels 1; Gaps 1;

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QY 271 DDVTCASSEPTVRIVGRGXGXVDVDRDDHFDGNOIOLWPSKSNNDPNQWLTIKRDXTIRS 330
Db 1 DDVTCASSEPTVRIVGRGXGXVDVDRDDHFDGNOIOLWPSKSNNDPNQWLTIKRDXTIRS 60
QY 331 NGSLTTYGTAGVYVIMFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 390
Db 61 NGSLTTYGTAGVYVIMFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 120
QY 391 VOTLDYTLGGWLAGNDTAPREVTIYGRDLCHESNKGVSVMVETCXSSQXNXWALYGD 450
Db 121 VOTLDYTLGGWLAGNDTAPREVTIYGRDLCHESNKGVSVMVETCXSSQXNXWALYGD 179
QY 451 GSIRPKQNDQCLTXGRDSVSTVINIVSCSXXSQXQXRVFTNEXAILNLKXXXXVDAQA 510
Db 180 GSIRPKQNDQCLTXGRDSVSTVINIVSCSXXSQXQXRVFTNEXAILNLKXXXXVDAQA 239
QY 511 NPKLRRIIYPATGKPNQWMLPV 533
Db 240 NPKLRRIIYPATGKPNQWMLPV 262

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RESULT 3

US-08-776-059-33

; Sequence 33, Application US/08776059B

; Patent No. 6271368

; GENERAL INFORMATION:

; APPLICANT: ECK, Jurgen

; APPLICANT: BAUR, Axel

; APPLICANT: ZINKE, Holger

; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)

; FILE REFERENCE: 674503-2003

; CURRENT APPLICATION NUMBER: US/08/776,059B

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-286-77

Query Match 41.9%; Score 1101; DB 1; Length 540;
Best Local Similarity 45.1%; Pred. No. 7.4e-115;
Matches 242; Conservative 81; Mismatches 193; Indels 20; Gaps 11;

Qy 9 THQTTXGYFRITLLRDYVSSGS-FSNEIPLR-QSTIPVSDAORFVLVELTNOGDXSX 66
Db 13 TADATVSTNPIRAVRSHLTGADVRHEIPVLPNRVGLPIS--ORFLLVLSNHAELSV 70
Qy 67 TAAIDVTNXYVAYAGQDSYFLR-DAPRGAB--THLFTGTRDRSSLPFFXGSYXDLERY 123
Db 71 TLALDVTNAYVGCRCAGNSAYFFHFDNQEDAEATHLFT-DVQNSFTFAFGGNYDRLEQL 129
Qy 124 AGHRDQIPLGIXQLIOSVXAL---RXPGGSTRXQARSILILMIOMISEAARFNPILWRXQ 180
Db 130 GGLRENIELGTGPLEDAISALVYISTCGTQIPTLARFVVCIMISEAARFQYIEGEMRT 189
Qy 181 XINGKSFLPDYXMLELTSWQOSTQVGHSTGDFVNNPXRRLAIXXGNFVTLXNVXXVIA 240
Db 190 RIRYNRRSAPDSPVITLNSWGLRSLTAIOESNOGAFASPIQLORNGSKFNVDVSLIP 249
Qy 241 SLAIMLFVCGERPSSDVRWPLVIRFVIAD---DYTCASBPTVIRVGRXGMXVDVRDD 297
Db 250 ITALMYRCAPPSSQ----FSLIRPVVFNADY-CMDPEPIVRIVGRNGLCVDVTGE 304
Qy 298 DFHDGNOIQLWPSKNDPNQLWTIKRDXTIRSGSLTITGYTAGVYVIMFDCNTAVRE 357
Db 305 EFPDGNPIQLWPKSKNDPNQLWTIKRDXTIRSGSLTITGYTAGVYVIMFDCNTAVRE 364
Qy 358 ATTQWIXNGTIIIPRSLNVLAASSGKGTTLTVQTLDTYTLGQGLAGNDTAPREVTIYG 417
Db 365 ATRQWQ 424
Qy 418 FRLCMESNXGVSVMVETCSQXQXQXQXQXQXQXQXQXQXQXQXQXQXQXQXQXQXQX 477
Db 425 LYGCLQANGSKWLEDCSTSEKARQ-QWALYADGSIIRPQQRNDCLTDDANIKGTVVKIL 483
Qy 478 SCXSSXQX 533
Db 484 SCGPASSQQRWFKNDGTILNGLVLDVRSRPSLQKIIIVHFGHNLNQLWLPL 539

RESULT 7
US-08-776-059-39

; Sequence 39, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jürgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 39
; LENGTH: 235
; TYPE: PRP
; ORGANISM: Viscum album
US-08-776-059-39

Query Match 40.9%; Score 1073; DB 4; Length 235;
Best Local Similarity 91.6%; Pred. No. 2.8e-112;

Matches 217; Conservative 0; Mismatches 18; Indels 2; Gaps 1;
Qy 18 FRFITLLRDYVSSGSFSNEIPLRQSTIPVSDAORFVLVELTNOGDXSXTAAIDVTNXYV 77
Db 1 FRFITLLRDYVSSGSFSNEIPLRQSTIPVSDAORFVLVELTNOGDXSXTAAIDVTNXYV 60
Qy 78 VAYAGQDSYFLRDAPRGAETHLFTGTRDRSSLPFFXGSYXDLERYAGHRDQIPLGIXQL 137
Db 61 VAYAGQDSYFLRDAPRGAETHLFTGTRDRSSLPFFXGSYXDLERYAGHRDQIPLGIXQL 118
Qy 138 IQSVXALRXPGGSTRXQARSILILMIOMISEAARFNPILWRXROINSXSFDPXMYMLEL 197
Db 119 IQSVTALRXPGGSTRXQARSILILMIOMISEAARFNPILWRARQVINSASFPLPQVYMLEL 178
Qy 198 ETSWQOSTQVGHSTGDFVNNPXRRLAIXXGNFVTLXNVXXVIAISLAIMLFVCGERP 254
Db 179 ETSWQOSTQVGHSTGDFVNNPXRRLAIXXGNFVTLXNVXXVIAISLAIMLFVCGERP 235

RESULT 8
US-08-378-761A-71

; Sequence 71, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 250 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-71

Query Match 17.3%; Score 453.5; DB 1; Length 250;
Best Local Similarity 41.9%; Pred. No. 1.1e-42;
Matches 106; Conservative 34; Mismatches 86; Indels 27; Gaps 7;

Qy 9 THQTTXGYFRITLLRDYVSSGSFSNEIPLRQSTIPVSDAORFVLVELTNOGDXSXTA 68
Db 9 TEGATSSQYKQFIALRERL-RGGIHDIPVLPDPT-TLQERNRYITVELNSDTSIEV 66
Qy 69 ADVTNXYVYVAYAGQDSYFLRDAPRGAETHLFTGTRDRSSLPFFXGSYXDLERYAGH-R 127
Db 67 GIDVTNAYVYVAYAGQDSYFLRDAPRGAETHLFTGTRDRSSLPFFXGSYXDLERYAGH-R 124

[illegible]

RESULT 9
 US-08-485-286-71
 ; Sequence 71, Application US/08485286
 ; Patent No. 5646026
 ; Patent No. 5646026 5646119
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSH, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; TITLE OF INVENTION: USING
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSER: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/485,286
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/378761
 ; FILING DATE: 26-JAN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 71:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 250 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 JS-08-485-286-71

Query Match	17.38;	Score 453.5;	DB 1;	Length 250;
Best Local Similarity	41.9%;	Pred. NO. 1.1e-42;		
Matches 106; Conservative	34;	Mismatches 86;	Indels 27;	Gaps 7;

9	THQTTGKEYPRFTLLRDVSVGSFSNEIPLLRQSTIPVSDAQRFVELVLTNOCXDSXTA	68
10	TEGATSGSYKQFTEAKERL-RGGIHLDFVLDPDT-TLQERNRYITVEISNDSIESIEV	66
69	AIDVTNNYVAYQAGDQSVFLRDPARGAETHLTCTTDRSSLSPFXGSYKDLERYAGH-R	127
67	GIDVTNAYVWAYRAGTQSVFLRDPASSASDYLTCT--DOHSLSPFYGTGDLERWAHQSR	124

[illegible]

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RESULT 10
US-08-356-786-10
; Sequence 10, Application US/08356786
; Patent No. 5877305
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Oppermann, Hermann
; APPLICANT: Houston, L. L.
; APPLICANT: Ring, David B.
; TITLE OF INVENTION: Biosynthetic Binding Protein for Cancer
; TITLE OF INVENTION: Marker
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Edmund K. Pitcher, Testa, Hurwitz, & Thibault
; STREET: Exchange Place, 53 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/356,786
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/831,967
; FILING DATE: 06-FEB-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Pitcher, Edmund R.
; REGISTRATION NUMBER: 27,829
; REFERENCE/DOCKET NUMBER: CRP-053
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-7000
; TELEFAX: (617) 248-7100
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 534 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-356-786-10

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Query Match	15.3%;	Score 403;	DB 2;	Length 534;
Best Local Similarity	27.9%;	Pred. No. 1.7e-36;		
Matches 143;	Conservative	78;	Mismatches 167;	Indels 124; Gaps 23;

Qy	9	THOTTGXEFRTITLDRYVSSGS-FSNEIPL-RQSTIPVSDAQRFVILVELTNOCKDSX	66
Db	16	TAGATQSYTNEIRAVRGLTTGADVRHEIPLVLPNVRGLPIN-QRFILVELSNEHAEISV	73
Qy	67	TAALDVNXYVAYQAGDSYFLR-DAPGAE--THLFTGTRDRSSLFPXSYXDLERY	123
Db	74	TLALDVNXYVGYRAGNSAYFTHEDNQEDAEIATHFLT-DVQNRVTFAPGGNYDELEQ	132
Qy	124	AGH-RDQIPLGIXQLIXVXAL---RXPGGSTRQARSILIIQMISEAFNFPILWRXR	179

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; MOLECULE TYPE: protein
; US-07-901-707-1
; Query Match 14.3%; Score 376; DB 1; Length 267;
; Best Local Similarity 39.1%; Pred. No. 6.4e-34;
; Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;
;
QY 133 AGNLRNIELGNPLEEALISALYYSTGTQTLPTLARSFIICQMISEAARFOYIEGMR 192
QY 180 QXINGXSFLEPDXYMLELETSWQOQSTOVQHSHTDGVFNPNXPRLAIXXGNFVTLXNVXVI 239
Db 193 TRIRYNRSAPDPSPVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSYVDVSILI 252
QY 240 ASLAIMLFCGGERPSSDVRYVPLVRPIADVTCSASEPTVRIVGRXGMKVDVRDDDF 299
Db 253 PIIALMVYRCAPPSSQ--FSLLRPVVPFNADVCMDEPQLV----- 294
QY 300 HDGNOIQLWPKSNNDPNQLWIKRDXITIRSGSCLTYYG----- 339
Db 295 QSGPELK-----KPGE--TVK--ISKASGYTANYGMNMMKQAPGKLGKMGWINT 342
QY 340 YTA-GYVV-----MIFDCNTAVREATI-----WQIWXNGTILNP 372
Db 343 YTGQSTYADDFKRFASLETSATTALHQLNNLRNEDSATYFCARRFGFYAYGQGLILSV 402
QY 373 RNLVLAASSGKIGTTLTQTLDYTLGQWLGNADTAPREVTIYGFRLDLCWESNXGSMV 432
Db 403 SASI-----SSGGGG-----GGGGGG-----GGSDIQMTQSPSSLSA 437
QY 433 E-----TCXSSQ--XNOXXW-ALYGDGSI 454
Db 438 SLGERVSLTCRASQDIGNSLTWSLQBPDTGK 469

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RESULT 11
US-07-901-707-1
; Sequence 1, Application US/07901707
; Patent No. 5376546
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Steve F.
; APPLICANT: Lane, Julie A.
; TITLE OF INVENTION: Materials Comprising and Methods of
; TITLE OF INVENTION: Composition and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; STREET: Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/901,707
; FILING DATE: 19920619
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5376546and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27129/30910
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-5750
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear

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; MOLECULE TYPE: protein
; US-07-901-707-1
; Query Match 14.3%; Score 376; DB 1; Length 267;
; Best Local Similarity 39.1%; Pred. No. 6.4e-34;
; Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;
;
QY 9 THOTGTKEYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNOGXDSX 66
Db 13 TAGATVQSYTNFRAVRGLTTGADVRHEIPVLPNVRGLPIN--QRFLVELSNHAEUSV 70
QY 67 TAALDVNTXVYVAYQAGDSQSYELR-DAPRGAE--THLFTGTTRDRSSLPFXGSYXDLE 123
Db 71 TLALDVNTXVYVAYQAGDSQSYELR-DAPRGAE--THLFTGTTRDRSSLPFXGSYXDLE 129
QY 124 AGH-RDQIPLGIXLIQSVXAL---RXPGGSTRQXARSILILQIMISAARPNILWXR 179
Db 130 AGNLRNIELGNPLEEALISALYYSTGTQTLPTLARSFIICQMISEAARFOYIEGMR 189
QY 180 QXINGXSFLEPDXYMLELETSWQOQSTOVQHSHTDGVFNPNXPRLAIXXGNFVTLXNVXVI 239
Db 190 TRIRYNRSAPDPSPVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSYVDVSILI 249
QY 240 ASLAIMLFCGGERPSS 255
Db 250 PIIALMVYRCAPPSS 265

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RESULT 12
US-07-988-430-1
; Sequence 1, Application US/07988430
; Patent No. 5416202
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Lane, Julie A.
; APPLICANT: Lei, Shau-ping
; TITLE OF INVENTION: Materials Comprising and Methods of
; TITLE OF INVENTION: Preparation and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 101
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; STREET: Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/988,430
; FILING DATE: 19921209
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5416202and, Greta E.
; REGISTRATION NUMBER: 35302
; REFERENCE/DOCKET NUMBER: 31133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-9740
; TELEX: 25-3856

```

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; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-988-430-1

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Query Match      14.3%; Score 376; DB 1; Length 267;
Best Local Similarity 39.1%; Pred. No. 6.4e-34;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTGXEYFRITLLRDVSVSSG-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGXDSX 66
DB 13 TAGATVQSTYFNIRAVRGRLTTGADVHRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYOAGDOSYFLR-DAPRGAE--THLFTGTRDRSSLPFXGSYXDLERY 123
DB 71 TLALDVTNAYVVGVRAGNSAYFFHPDNOEDAEATHLFT-DVQNYTFAFGGNYDRLEOL 129
QY 124 AGH-RDQIPLGIXQLIQSVXAL---RXPGGSTRXQARSILILIOMISEAARFNPLWRXR 179
DB 130 AGNLENIELGNGLPEEAISALYYSTGTQTLPLARSFIIICIMISEAARFQYIEGMR 189
QY 180 QXINSXSFLLPDXYMLELETSWGQOSTQVQHSITDGVFNPNPRLAIXXGNFVTLXNVXVI 239
DB 190 TRIRYNRSAPDPSPVITLNSWGRLSTAQESNOGAFASPIQLORRNGSKFSVYDVSI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIALMVYRCAPPSS 265

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RESULT 13

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US-08-218-303-16
; Sequence 16, Application US/08218303
; Patent No. 5547867
; GENERAL INFORMATION:
; APPLICANT: Kara, Bhupendra V.
; APPLICANT: Hockney, Robert C.
; APPLICANT: Fitton, John E.
; TITLE OF INVENTION: FERMENTATION PROCESS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cushman, Darby & Cushman
; STREET: 1615 L Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20036-5601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/218,303
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 435
; FILING DATE:
; APPLICATION NUMBER: US 07/841,533
; FILING DATE: 26-FEB-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Kokulis, Paul N.
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: PNK/3893/94908/MJW
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-218-303-16

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Query Match      14.3%; Score 376; DB 1; Length 267;
Best Local Similarity 39.1%; Pred. No. 6.4e-34;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTGXEYFRITLLRDVSVSSG-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGXDSX 66
DB 13 TAGATVQSTYFNIRAVRGRLTTGADVHRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYOAGDOSYFLR-DAPRGAE--THLFTGTRDRSSLPFXGSYXDLERY 123
DB 71 TLALDVTNAYVVGVRAGNSAYFFHPDNOEDAEATHLFT-DVQNYTFAFGGNYDRLEOL 129
QY 124 AGH-RDQIPLGIXQLIQSVXAL---RXPGGSTRXQARSILILIOMISEAARFNPLWRXR 179
DB 130 AGNLENIELGNGLPEEAISALYYSTGTQTLPLARSFIIICIMISEAARFQYIEGMR 189
QY 180 QXINSXSFLLPDXYMLELETSWGQOSTQVQHSITDGVFNPNPRLAIXXGNFVTLXNVXVI 239
DB 190 TRIRYNRSAPDPSPVITLNSWGRLSTAQESNOGAFASPIQLORRNGSKFSVYDVSI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIALMVYRCAPPSS 265

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RESULT 14

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US-08-425-336-1
; Sequence 1, Application US/08425336
; Patent No. 5621083
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 140
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/425,336
; FILING DATE: 18-APR-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/064,691
; FILING DATE: 12-MAY-1993
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Thomas C.
; REGISTRATION NUMBER: P-36,989
; REFERENCE/DOCKET NUMBER: 31394
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856

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Sat Mar 22 10:41:32 2003

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; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-425-336-1

Query Match      14.3%; Score 376; DB 1; Length 267;
Best Local Similarity 39.1%; Pred. No. 6.4e-34;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTGXEYFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGXDSX 66
DB 13 TAGATVQSYTNFIRAVRGLTTGADVRRHEIPVLPNVRGLPIN--QRFILVELSNHAE LSV 70
QY 67 TAAIDVTNXYVAYQAGDOSYFLR-DAPRGAE--THLFTGTTDRDSSLFPXGSIYDLERY 123
DB 71 TLALDVTNAYVGYRAGNSAYFFHPDNQDEAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPLGIXQLIQSVXAL---RXPGGSTRXQARSILILQIMISEAARFNPILWRXR 179
DB 130 AGNLRENIELGNGLPEEAISALYYSTGGTQLPPTLARSFICIQMISEAARFQYIEGEMR 189
QY 180 QXINSXGSLPDXMYLETSWGQOSTOVQHSSTGDFVNNPXRLLAIXXGNFVTLXNVXVI 239
DB 190 TRIRYNRRSAPDSPVITLNSWGRLSTAIOESNOGAFASPIQLORRNGSKFSYVDVSILI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIALMVYRCAPPSS 265

RESULT 15
US-08-488-113B-1
; Sequence 1, Application US/08488113B
; Patent No. 5744580
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,113B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/425,336
; FILING DATE: 18-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
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; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-488-113B-1

Query Match      14.3%; Score 376; DB 1; Length 267;
Best Local Similarity 39.1%; Pred. No. 6.4e-34;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTGXEYFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGXDSX 66
DB 13 TAGATVQSYTNFIRAVRGLTTGADVRRHEIPVLPNVRGLPIN--QRFILVELSNHAE LSV 70
QY 67 TAAIDVTNXYVAYQAGDOSYFLR-DAPRGAE--THLFTGTTDRDSSLFPXGSIYDLERY 123
DB 71 TLALDVTNAYVGYRAGNSAYFFHPDNQDEAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPLGIXQLIQSVXAL---RXPGGSTRXQARSILILQIMISEAARFNPILWRXR 179
DB 130 AGNLRENIELGNGLPEEAISALYYSTGGTQLPPTLARSFICIQMISEAARFQYIEGEMR 189
QY 180 QXINSXGSLPDXMYLETSWGQOSTOVQHSSTGDFVNNPXRLLAIXXGNFVTLXNVXVI 239
DB 190 TRIRYNRRSAPDSPVITLNSWGRLSTAIOESNOGAFASPIQLORRNGSKFSYVDVSILI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIALMVYRCAPPSS 265

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Job time : 18.4815 secs
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GenCore version 5.1.4_p5.4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 7.87037 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-2

Perfect score: 1213

Sequence: 1 YERLRLRVHTQTGXEYFRP.....XVIASLAIMLFVCGERPSSS 255

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Issued Patents AA:*

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- 2: /cgn2_6/ptodata/2/iaa/5B COMB pep:*
- 3: /cgn2_6/ptodata/2/iaa/6A COMB pep:*
- 4: /cgn2_6/ptodata/2/iaa/6B COMB pep:*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS COMB pep:*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1165.5	96.1	564	4	US-08-776-059-35
2	1155.5	95.3	253	4	US-08-776-059-31
3	1073.5	88.5	235	4	US-08-776-059-39
4	447	36.9	250	1	US-08-378-761A-71
5	447	36.9	250	1	US-08-485-286-71
6	379	31.2	540	1	US-08-378-761A-77
7	379	31.2	540	1	US-08-485-286-77
8	377.5	31.1	267	1	US-07-901-707-1
9	377.5	31.1	267	1	US-07-988-430-1
10	377.5	31.1	267	1	US-08-218-303-16
11	377.5	31.1	267	1	US-08-425-336-1
12	377.5	31.1	267	1	US-08-488-113B-1
13	377.5	31.1	267	1	US-08-477-484B-1
14	377.5	31.1	267	2	US-08-646-360-1
15	377.5	31.1	267	2	US-08-338-793D-61
16	377.5	31.1	267	4	US-08-839-765-1
17	377.5	31.1	267	4	US-09-136-389-1
18	377.5	31.1	267	4	US-09-610-838-1
19	377.5	31.1	267	5	PCT-US92-09487-1
20	377.5	31.1	268	2	US-08-356-786-8
21	377.5	31.1	534	2	US-08-356-786-10
22	373.5	30.8	290	1	US-08-378-761A-27
23	373.5	30.8	290	1	US-08-485-286-27
24	373.5	30.8	290	6	5248606-4
25	322.5	26.6	282	1	US-08-324-301-15
26	308.5	25.4	267	1	US-08-378-761A-74
27	308.5	25.4	267	1	US-08-485-286-74

28	306.5	25.3	247	1	US-08-488-113B-6	Sequence 6, Appli
29	306.5	25.3	247	1	US-08-477-484B-6	Sequence 6, Appli
30	306.5	25.3	247	2	US-08-646-360-6	Sequence 6, Appli
31	306.5	25.3	247	4	US-08-839-765-6	Sequence 6, Appli
32	306.5	25.3	247	4	US-09-136-389-6	Sequence 6, Appli
33	306.5	25.3	247	4	US-09-610-838-6	Sequence 6, Appli
34	301.5	24.9	289	1	US-07-923-692C-4	Sequence 4, Appli
35	301.5	24.9	289	1	US-08-184-237-4	Sequence 4, Appli
36	301.5	24.9	289	2	US-08-482-920-4	Sequence 4, Appli
37	301.5	24.9	289	3	US-08-484-341-4	Sequence 4, Appli
38	301.5	24.9	289	4	US-08-483-502-4	Sequence 4, Appli
39	301.5	24.9	289	4	US-09-726-651A-4	Sequence 4, Appli
40	284.5	23.5	263	1	US-07-901-707-4	Sequence 4, Appli
41	284.5	23.5	263	1	US-07-988-430-4	Sequence 4, Appli
42	284.5	23.5	263	1	US-08-425-336-4	Sequence 4, Appli
43	284.5	23.5	263	1	US-08-488-113B-4	Sequence 4, Appli
44	284.5	23.5	263	1	US-08-477-484B-4	Sequence 4, Appli
45	284.5	23.5	263	2	US-08-646-360-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776, 059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-35

Query Match 96.1%; Score 1165.5; DB 4; Length 564;
Best Local Similarity 92.2%; Pred. No. 9.1e-135;
Matches 235; Conservative 0; Mismatches 19; Indels 1; Gaps 1;

Qy	1	YERLRLRVHTQTGXEYFRPITLLRDYVSSGSFNSNEIPLLRQSTTPVSDAQRFLVELTN 60
Db	34	YERLRLRVHTQTGXEYFRPITLLRDYVSSGSFNSNEIPLLRQSTTPVSDAQRFLVELTN 93
Qy	61	QGXSXTAAIDVTNXXVYVAYQAGDSYFLRDAPRGAETHLFTGTTXSSLPKXGSYXDL 120
Db	94	QGDSITAAIDVTNLYVYVAYQAGDSYFLRDAPRGAETHLFTGTTT-RSSLFNGSYDLE 152
Qy	121	RYAGHRQIPIGIQIQLQISVVALXPQGSTXQARSILILQIMISEAARFNPILWRXQX 180
Db	153	RYAGHRQIPIGIQIQLQISVVALXPQGSTXQARSILILQIMISEAARFNPILWRXQY 212
Qy	181	INSGXSLPDXYMLELSTSGQOSTQVQHSITDGVFNPNPRLAIXXGNFVTLNVRXVVIAS 240
Db	213	INSGASFLPDVYMLELSTSGQOSTQVQHSITDGVFNPNPRLAIPPGNFVTLTNVRDVAS 272
Qy	241	LAIMLFVCGERPSSS 255
Db	273	LAIMLFVCGERPSSS 287

US-08-776-059-31

Query Match 88.5%; Score 1073.5; DB 4; Length 235;
Best Local Similarity 91.9%; Pred. No. 5.3e-124;
Matches 217; Conservative 0; Mismatches 18; Indels 1; Gaps 1;

QY 18 FRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLVLTNOGXDSXTAAIDVTNLYV 77
DB 1 FRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLVLTNOGXDSXTAAIDVTNLYV 60

QY 78 VAYOAGDQSYFLRDAPRGAETHLFTGTTTRXSLSLPKGSYXDLERVAGHRDQIPLGIXQLI 137
DB 61 VAYOAGDQSYFLRDAPRGAETHLFTGTTTR-SSLPENGSPDLERYAGHRDQIPLGIDQLI 119

QY 138 QSVKALRXPGGSTRQARSILILIQMISEAARFNILWRXQINSXGSLPDXMYMLE 197
DB 120 QSVTALRFPGGSTRQARSILILIQMISEAARFNILWRXQINSXGSLPDXMYMLE 179

QY 198 TSWGQOSTQVQHSHTDGVFNPNPRLAIXXGNFVTLNVRXVIAASLAIMLFCVGERPS 253
DB 180 TSWGQOSTQVQHSHTDGVFNPNPRLAIPGNGFVTLNVRDVIASLAIMLFCVGERPS 235

RESULT 4

US-08-378-761A-71

; Sequence 71, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS: 81
; ADDRESSEE: ANDREA I. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM: FLOPPY disk
; MEDIUM TYPE: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 250 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-378-761A-71

Query Match 36.9%; Score 447; DB 1; Length 250;
Best Local Similarity 41.7%; Pred. No. 6.7e-47;
Matches 105; Conservative 34; Mismatches 87; Indels 26; Gaps 7;

QY 9 THQTTGXEFYFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLVLTNOGXDSXTA 68
DB 9 TEGATSQSYKQFIEALRRL-RGGLIHDPVLPDPT-TLOERNRYITVELSNSDTSIEV 66

US-08-776-059-31

Query Match 95.3%; Score 1155.5; DB 4; Length 253;
Best Local Similarity 91.7%; Pred. No. 4.8e-134;
Matches 232; Conservative 1; Mismatches 19; Indels 1; Gaps 1;

QY 1 YERILRVTHQTTGXEFYFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLVLTN 60
DB 2 YERILRVTHQTTGXEFYFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLVLTN 61

QY 61 QGXDXTAAIDVTNLYVAYOAGDQSYFLRDAPRGAETHLFTGTTTRXSLSLPKGSYXDL 120
DB 62 QGDSITAAIDVTNLYVAYOAGDQSYFLRDAPRGAETHLFTGTTTR-SSLPENGSPDLE 120

QY 121 RYAGHRDQIPLGIXQLIOSVXALRXPGGSTRQARSILILIQMISEAARFNILWRXROX 180
DB 121 RYAGHRDQIPLGIXQLIOSVXALRXPGGSTRQARSILILIQMISEAARFNILWRXROX 180

QY 181 INSGSFLPDXMYMLELSTSWGQOSTQVQHSHTDGVFNPNPRLAIXXGNFVTLNVRXVIAS 240
DB 181 INSGSFLPDXMYMLELSTSWGQOSTQVQHSHTDGVFNPNPRLAIPGNGFVTLNVRDVIAS 240

QY 241 LAIMLFCVGERPS 253
DB 241 LAIMLFCVGERPS 253

RESULT 3

US-08-776-059-39

; Sequence 39, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER FILING DATE: 1999-06-19
; EARLIER FILING DATE: 1996-06-25
; EARLIER FILING DATE: 1996-06-25
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 39
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Viscum album

US-08-776-059-31

Query Match 95.3%; Score 1155.5; DB 4; Length 253;
Best Local Similarity 91.7%; Pred. No. 4.8e-134;
Matches 232; Conservative 1; Mismatches 19; Indels 1; Gaps 1;

QY 1 YERILRVTHQTTGXEFYFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLVLTN 60
DB 2 YERILRVTHQTTGXEFYFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLVLTN 61

QY 61 QGXDXTAAIDVTNLYVAYOAGDQSYFLRDAPRGAETHLFTGTTTRXSLSLPKGSYXDL 120
DB 62 QGDSITAAIDVTNLYVAYOAGDQSYFLRDAPRGAETHLFTGTTTR-SSLPENGSPDLE 120

QY 121 RYAGHRDQIPLGIXQLIOSVXALRXPGGSTRQARSILILIQMISEAARFNILWRXROX 180
DB 121 RYAGHRDQIPLGIXQLIOSVXALRXPGGSTRQARSILILIQMISEAARFNILWRXROX 180

QY 181 INSGSFLPDXMYMLELSTSWGQOSTQVQHSHTDGVFNPNPRLAIXXGNFVTLNVRXVIAS 240
DB 181 INSGSFLPDXMYMLELSTSWGQOSTQVQHSHTDGVFNPNPRLAIPGNGFVTLNVRDVIAS 240

QY 241 LAIMLFCVGERPS 253
DB 241 LAIMLFCVGERPS 253

```
Query Match          36.9%; Score 447; DB 1; Length 250;
Best Local Similarity 41.7%; Pred. No. 6.7e-47;
Matches 105; Conservative 34; Mismatches 87; Indels 26; Gaps 7;
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Matches	97	Conservative	39	Mismatches	108	Indels	10	Gaps
9	THQTGTGXEYFFITLLRDYVSSGS-FSNIEIPLL-RQSTIPVSDQRFVVLVELTNQGXDSX	66						
13	TADATVESYTNFIRAVRSHLTTGADVRIHEIPLVNRVGPIS--QRFTILVELSNHAEISV	70						
67	TAAIDVTNXXVAYQAGDOSYFYLR-DAERGAE--TLHTGTTRXSSILPFPGSYXDLEKVA	123						
71	TLALDVTNAVVGVCRAGNSAYFFHPDNOQDEAEITHLTFDQVNSFTTFAGFGNDRLEQLG	130						
124	CHRDQIPLGIXQLIQSVXAL---RPGSGSTXQARSILILQMTSEAAENFILWEXRXX	180						

us-09-601-667c-2.ra1

Sat Mar 22 10:41:14 2003

Db 131 GLRENIEGTGPLEDAISALYYSTCGTQIPTLARSEFWVCIMISEAARFOYIEGEMTR 190
 QY 181 INSGXSFDPDXMYMLETSWQOQSTQVQHSSTGDFVNNPXRLAIXXGNFVTLXNVRXVIAS 240
 Db 191 IRYNRRSAPDPSPVITLNSWGRSLTAIOESNOGAFASPIQLORRNGSKFNVDVLSILPI 250
 QY 241 LAIMLFVCGERPSS 254
 Db 251 IALMVYRCAPPSS 264

RESULT 8
 US-07-901-707-1
 ; Sequence 1, Application US/07901707
 ; Patent No. 5376546
 ; GENERAL INFORMATION:
 ; APPLICANT: Bernhardt, Susan L.
 ; APPLICANT: Better, Marc D.
 ; APPLICANT: Carroll, Steve F.
 ; APPLICANT: Lane, Julie A.
 ; TITLE OF INVENTION: Materials Comprising and Methods of
 ; TITLE OF INVENTION: Composition and Use for Ribosome-Inactivating Proteins
 ; NUMBER OF SEQUENCES: 57
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
 ; ADDRESSEE: Bicknell
 ; STREET: Two First National Plaza, 20 South Clark
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60603
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07901,707
 ; FILING DATE: 19920619
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/787,567
 ; FILING DATE: 04-NOV-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5376546and, Greta E.
 ; REGISTRATION NUMBER: 35,302
 ; REFERENCE/DOCKET NUMBER: 27129/30910
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (312) 346-5750
 ; TELEFAX: (312) 984-5750
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 267 amino acids
 ; TYPE: AMINO ACID
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-07-901-707-1

Db 131 GLRENIEGTGPLEDAISALYYSTCGTQIPTLARSEFWVCIMISEAARFOYIEGEMTR 190
 QY 181 INSGXSFDPDXMYMLETSWQOQSTQVQHSSTGDFVNNPXRLAIXXGNFVTLXNVRXVIAS 240
 Db 191 IRYNRRSAPDPSPVITLNSWGRSLTAIOESNOGAFASPIQLORRNGSKFNVDVLSILPI 250
 QY 241 LAIMLFVCGERPSS 254
 Db 251 IALMVYRCAPPSS 264

RESULT 7
 US-08-485-286-77
 ; Sequence 77, Application US/08485286
 ; Patent No. 5646026 5646119
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSH, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; TITLE OF INVENTION: USING
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/485,286
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/378761
 ; FILING DATE: 26-JAN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 77:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 540 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-485-286-77

Query Match 31.2%; Score 379; DB 1; Length 540;
 Best Local Similarity 38.2%; Pred. No. 4.7e-38;
 Matches 97; Conservative 39; Mismatches 108; Indels 10; Gaps 6;

QY 9 THOTTGXEFRTLLRDYVSSGS-PSNEIPLL-RQSTIPVSDAQRFLVELTNQGXDSX 66
 Db 13 TADATVESYTNFTRAVRSHLTTCGADVRHEIPVLPNVRGLPIS--QRFLVELSNHAEISV 70
 QY 67 TAAIDVTNXYVAYQAGDSQSYFLR-DAPRGAE--THLFTGTRXSSLPFXGXYDLERYA 123
 Db 71 TLALDVTNAYVVGCRAGNSAYFFHPDQEDAEATHLFTDVQNSFTTAFGNGYDRLEQLG 130
 QY 124 GHRDQIPGLIXQLIQSVKAL---RXPGGSTRQARSILILQIMISEAARFNPLWRXQX 180

Db 131 GNLRENIELGNGPLEEASALYYSTGGTQLPTLARSFICIQMISEAARFQYIEGEMRT 190
 QY 180 XINGKSFPLDXYMLELETSGWQSTQVQHSHTDGVFNXPRLAIXXGNFVTLXNVRXVIA 239
 Db 191 RIRYNRRSAPDPSVITLNSGRLTAIQESNQGFASPIQLORRNGSKFSYDVVSILIP 250
 QY 240 SLAIMLFVCGERPSS 254
 Db 251 IIALMVYRCAPPSS 265

RESULT 9
 US-07-988-430-1
 ; Sequence 1, Application US/07988430
 ; Patent No. 5416202
 ; GENERAL INFORMATION:
 ; APPLICANT: Bernhard, Susan L.
 ; APPLICANT: Better, Marc D.
 ; APPLICANT: Carroll, Stephen F.
 ; APPLICANT: Lane, Julie A.
 ; APPLICANT: Lei, Shau-Ping
 ; TITLE OF INVENTION: Materials Comprising and Methods of
 ; TITLE OF INVENTION: Preparation and Use for Ribosome-Inactivating Proteins
 ; NUMBER OF SEQUENCES: 101
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
 ; ADDRESSEE: Bicknell
 ; STREET: Two First National Plaza, 20 South Clark
 ; STREET: Street
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60603

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 FILING DATE: 19921209
 APPLICATION NUMBER: US/07/988,430
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/901,707
 FILING DATE: 19-JUN-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/787,567
 FILING DATE: 04-NOV-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: No. 5416202and, Greta E.
 REGISTRATION NUMBER: 35302
 REFERENCE/DOCKET NUMBER: 31133
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (312) 346-5750
 TELEFAX: (312) 984-9740
 TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 267 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-07-988-430-1

Query Match 31.1%; Score 377.5; DB 1; Length 267;
 Best Local Similarity 38.8%; Pred. No. 2.6e-38;
 Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;

QY 9 THQTTGXEYFRITLLRDYVSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGKDSX 66
 Db 13 TAGATVQSTVNTFIRAVRGLTTGADVREIPLVLPNRVGLPIN--ORFTLVLSNHAELSV 70

QY 67 TAAIDVTNXYVAYQAGDSQSYFLR-DAPRGAE--THLFTGTTRXSSLPEXGYSYDLERYA 123
 Db 71 TLALDVTNAYVVGVRAGNSAYFFHFDNQDAEAIITLFTDVQNYTTFAGGNVDRLEOLA 130
 QY 124 GH-RDQIPLGTIXLIQSVXAL---RXPGGSTRQAQSILILIQMISEAARFNFILWXRQ 179
 Db 131 GNLRENIELGNGPLEEASALYYSTGGTQLPTLARSFICIQMISEAARFQYIEGEMRT 190
 QY 180 XINGKSFPLDXYMLELETSGWQSTQVQHSHTDGVFNXPRLAIXXGNFVTLXNVRXVIA 239
 Db 191 RIRYNRRSAPDPSVITLNSGRLTAIQESNQGFASPIQLORRNGSKFSYDVVSILIP 250
 QY 240 SLAIMLFVCGERPSS 254
 Db 251 IIALMVYRCAPPSS 265

RESULT 10
 US-08-218-303-16
 ; Sequence 16, Application US/08218303
 ; Patent No. 5547867
 ; GENERAL INFORMATION:
 ; APPLICANT: Kara, Bhupendra V.
 ; APPLICANT: Hockney, Robert C.
 ; APPLICANT: Fittion, John E.
 ; TITLE OF INVENTION: FERMENTATION PROCESS
 ; NUMBER OF SEQUENCES: 23
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Cushman, Darby & Cushman
 ; STREET: 1615 L Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20036-5601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 FILING DATE: US/08/218,303
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/841,533
 FILING DATE: 26-FEB-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Kokulis, Paul N.
 REGISTRATION NUMBER: 16,773
 REFERENCE/DOCKET NUMBER: PNK/3893/94908/MJW
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 TELEX: 6714627 CUSH
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 267 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-218-303-16

Query Match 31.1%; Score 377.5; DB 1; Length 267;
 Best Local Similarity 38.8%; Pred. No. 2.6e-38;
 Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;

QY 9 THQTTGXEYFRITLLRDYVSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGKDSX 66
 Db 13 TAGATVQSTVNTFIRAVRGLTTGADVREIPLVLPNRVGLPIN--ORFTLVLSNHAELSV 70
 QY 67 TAAIDVTNXYVAYQAGDSQSYFLR-DAPRGAE--THLFTGTTRXSSLPEXGYSYDLERYA 123
 Db 71 TLALDVTNAYVVGVRAGNSAYFFHFDNQDAEAIITLFTDVQNYTTFAGGNVDRLEOLA 130

us-09-601-667c-2.ra1

Sat Mar 22 10:41:14 2003

QY 67 TAAIDVTNXYVAYOAGDOSYFLR-DAPRGAE--THLFTGTRXSSLDPFXXSYDLERYA 123
 Db 71 TLALDVTNXYVAYOAGDOSYFLR-DAPRGAE--THLFTGTRXSSLDPFXXSYDLERYA 130
 QY 124 GH-RQDIPGLIXQLIQSVKAL---RXPGRSTRXQARSILILQIMISEAARFNPIILWRXQ 179
 Db 131 GNLRENIELGNPLBEAISALYYSTGGTQPLTLARSFIICIQIMISEAARFQYIEGEMRT 190
 QY 180 XNSGKSFLPDXYMLELETSWQOQSTQVQHSSTGVFNPNPRLAIXXGNFVTLXNVXXVIA 239
 Db 191 RIRYNRSAPDPSVITLNSWGRSLTAIOESNQAFASPIQLQRRNGSKFSVYDVSIILIP 250
 QY 240 SLAIMLFVCGERPSS 254
 Db 251 IIALMVYRCAPPSS 265

RESULT 12

US-08-488-113B-1
 ; Sequence 1, Application US/08488113B
 ; Patent No. 5744580
 ; GENERAL INFORMATION:
 ; APPLICANT: Better, Marc D.
 ; APPLICANT: Carroll, Stephen F.
 ; APPLICANT: Studnika, Gary M.
 ; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
 ; TITLE OF INVENTION: Proteins
 ; NUMBER OF SEQUENCES: 169
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
 ; STREET: 500 West Madison Street, 34th floor
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60661
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/488,113B
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/425,336
 ; FILING DATE: 18-APR-1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/064,691
 ; FILING DATE: 12-MAY-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/988,430
 ; FILING DATE: 09-DEC-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/901,707
 ; FILING DATE: 19-JUN-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/787,567
 ; FILING DATE: 04-NOV-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: McNicholas, Janet M.
 ; REGISTRATION NUMBER: 32,918
 ; REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312/707-8889
 ; TELEFAX: 312/707-9155
 ; TELEX: 650 388-1248
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 267 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein

QY 124 GH-RQDIPGLIXQLIQSVKAL---RXPGRSTRXQARSILILQIMISEAARFNPIILWRXQ 179
 Db 131 GNLRENIELGNPLBEAISALYYSTGGTQPLTLARSFIICIQIMISEAARFQYIEGEMRT 190
 QY 180 XNSGKSFLPDXYMLELETSWQOQSTQVQHSSTGVFNPNPRLAIXXGNFVTLXNVXXVIA 239
 Db 191 RIRYNRSAPDPSVITLNSWGRSLTAIOESNQAFASPIQLQRRNGSKFSVYDVSIILIP 250
 QY 240 SLAIMLFVCGERPSS 254
 Db 251 IIALMVYRCAPPSS 265

RESULT 11

US-08-425-336-1
 ; Sequence 1, Application US/08425336
 ; Patent No. 5621083
 ; GENERAL INFORMATION:
 ; APPLICANT: Better, Marc D.
 ; APPLICANT: Carroll, Stephen F.
 ; APPLICANT: Studnika, Gary M.
 ; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
 ; TITLE OF INVENTION: Proteins
 ; NUMBER OF SEQUENCES: 140
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 ; STREET: 6300 Sears Tower, 233 South Wacker Drive
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60606-6402
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/425,336
 ; FILING DATE: 18-APR-1995
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/064,691
 ; FILING DATE: 12-MAY-1993
 ; APPLICATION NUMBER: US 07/901,707
 ; FILING DATE: 19-JUN-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/787,567
 ; FILING DATE: 04-NOV-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Meyers, Thomas C.
 ; REGISTRATION NUMBER: P-36,989
 ; REFERENCE/DOCKET NUMBER: 31394
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312/474-6300
 ; TELEFAX: 312/474-0448
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 267 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-425-336-1
 ; Query Match 31.1%; Score 377.5; DB 1; Length 267;
 ; Best Local Similarity 38.8%; Pred. No. 2.6e-38;
 ; Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;
 ; QY 9 THQTGTGXYEYFRFTLLRDYVSSGS-FSNEIPLLR-QSTIPVSDQRVILVLTNQGKDSX 66
 ; Db 13 TAGATVSYNTFIRAVRGRLTTGADVRRHEIFVLPNVRVGLPIN--QRFILVLSNHAELSV 70

US-08-488-113B-1

Query Match 31.1%; Score 377.5; DB 1; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.6e-38;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;

QY 9 THQTCXEYFRITLLRDYVSSGS-FSNEIPLL-ROSTIPVSDAQRFLVELTNQGXDSX 66
DB 13 TAGATVQSTNFIARVGRGLTTGADVHRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70

QY 67 TAAIDVTNXYVAYOAGDOSYFLR-DAPRGAE--THLFTGTTXSSLPFXGSYXDLERYA 123
DB 71 TLALDVTNAYVVGYRAGNSAYFFHPDNQEDAEATHLFTDQVNRVYTFAGGNVDRLEOLA 130

QY 124 GH-RDOIPLGIXQLIOSVXAL---RXPGGSTRXQARSILILIQMISEAARFNPILWRXRXQ 179
DB 131 GNLRENIELNGPLEBAISALYYSTGGTQLPTLARSFICIQMISEAARFQIEGEMRT 190

QY 180 XINSGXSFDPXYMLETSWGQOSTOVQHSHTDGVNPNPRLAIXXGNFVTLXNVRXVIA 239
DB 191 RIRYNRRSAPDSPVITLNSWGRLSTAIQESNQGFASPIQLQRRNGSKFSYVDVSILIP 250

QY 240 SLAIMLFVCGERPSS 254
DB 251 IIALMVYRCAPPSS 265

RESULT 13

US-08-477-484B-1
; Sequence 1, Application US/08477484B
; Patent No. 5756699
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,484B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/425,336
; FILING DATE: 18-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11023US07/200-70.P3.C2A

TELECOMMUNICATION INFORMATION:

; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-484B-1

Query Match 31.1%; Score 377.5; DB 1; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.6e-38;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;

QY 9 THQTCXEYFRITLLRDYVSSGS-FSNEIPLL-ROSTIPVSDAQRFLVELTNQGXDSX 66
DB 13 TAGATVQSTNFIARVGRGLTTGADVHRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70

QY 67 TAAIDVTNXYVAYOAGDOSYFLR-DAPRGAE--THLFTGTTXSSLPFXGSYXDLERYA 123
DB 71 TLALDVTNAYVVGYRAGNSAYFFHPDNQEDAEATHLFTDQVNRVYTFAGGNVDRLEOLA 130

QY 124 GH-RDOIPLGIXQLIOSVXAL---RXPGGSTRXQARSILILIQMISEAARFNPILWRXRXQ 179
DB 131 GNLRENIELNGPLEBAISALYYSTGGTQLPTLARSFICIQMISEAARFQIEGEMRT 190

QY 180 XINSGXSFDPXYMLETSWGQOSTOVQHSHTDGVNPNPRLAIXXGNFVTLXNVRXVIA 239
DB 191 RIRYNRRSAPDSPVITLNSWGRLSTAIQESNQGFASPIQLQRRNGSKFSYVDVSILIP 250

QY 240 SLAIMLFVCGERPSS 254
DB 251 IIALMVYRCAPPSS 265

RESULT 14
US-08-646-360-1
; Sequence 1, Application US/08646360
; Patent No. 5837491
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; NUMBER OF SEQUENCES: 173
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,360
; FILING DATE: 13-MAY-1996
; CLASSIFICATION: 530
; APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05348
; FILING DATE: 12-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 200-70.P4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-646-360-1

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Query Match 31.1%; Score 377.5; DB 2; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.6e-38;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;

QY 9 THQTTGXEYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVVELTNOGXDSX 66
DB 13 TAGATVQSYTNFIRAVRGRLTTGADVRHEIPVLNPRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNXXVYVAYQAGDSYFLR-DAPRGAE--THLFTGTTRXSSLPFXGSYXDLERYA 123
DB 71 TLALDVTNAVYVGYRAGNSAYFFHPDNOEDAEATHLFTDVQNYRTAFGNGYDRLEQLA 130
QY 124 GH-RDQIPGLIXQLIQSVXAL---RXPGGSTRXQARSILILIQMISEAARNPILWRXQ 179
DB 131 GNLRNIELGNGLPEEAISALYYVSTGQTLPFLARSFIICQMISEAARFQYIEGEMRT 190
QY 180 XINGSGSFLPDXYMLETSSWGQSTQVQHSITDGVFNPNFXRLAIXXGNFVTLXNVXRVA 239
DB 191 RIRYNRSAPDPSPVITLNSWGRSLTAIQESNQGAFAPIQLQRRNGSKFSVYDVDSILIP 250
QY 240 SLAIMLFCVGERPSS 254
DB 251 IIALMVYRCAPPSS 265

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RESULT 15
US-08-338-793D-61
Sequence 61, Application US/08338793D
Patent No. 5840521
GENERAL INFORMATION:
APPLICANT: Barth, Peter Thomas
TITLE OF INVENTION: VECTOR
NUMBER OF SEQUENCES: 61
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN DAREY CUSHMAN
ADDRESSEE: INTELLECTUAL PROPERTY GROUP OF
ADDRESSEE: PILLSBURY MADISON & SUTRO, L.L.P.
STREET: 1100 New York Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
COMPUTER: IBM PC/XT/AT Compatibles
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word or ASCII editors
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/338,793D
FILING DATE: 08-No. 5840521-94
CLASSIFICATION: 435

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/842,081
; FILING DATE: 26-Feb-92
; CLASSIFICATION: 435
; APPLICATION NUMBER: 9104017.0
; FILING DATE: 26-Feb-91
; APPLICATION NUMBER: 9109188.4
; FILING DATE: 29-Apr-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Kokuljis, Paul N.
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: DJB/9901/215431/TGW
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 61:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; US-08-338-793D-61

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Query Match 31.1%; Score 377.5; DB 2; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.6e-38;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;

QY 9 THQTTGXEYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVVELTNOGXDSX 66
DB 13 TAGATVQSYTNFIRAVRGRLTTGADVRHEIPVLNPRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNXXVYVAYQAGDSYFLR-DAPRGAE--THLFTGTTRXSSLPFXGSYXDLERYA 123
DB 71 TLALDVTNAVYVGYRAGNSAYFFHPDNOEDAEATHLFTDVQNYRTAFGNGYDRLEQLA 130
QY 124 GH-RDQIPGLIXQLIQSVXAL---RXPGGSTRXQARSILILIQMISEAARNPILWRXQ 179
DB 131 GNLRNIELGNGLPEEAISALYYVSTGQTLPFLARSFIICQMISEAARFQYIEGEMRT 190
QY 180 XINGSGSFLPDXYMLETSSWGQSTQVQHSITDGVFNPNFXRLAIXXGNFVTLXNVXRVA 239
DB 191 RIRYNRSAPDPSPVITLNSWGRSLTAIQESNQGAFAPIQLQRRNGSKFSVYDVDSILIP 250
QY 240 SLAIMLFCVGERPSS 254
DB 251 IIALMVYRCAPPSS 265

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Search completed: March 22, 2003, 09:59:35
Job time : 9.87037 secs

GenCore version 5.1.4 p5 4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 16.4506 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-1
Perfect score: 2616
Sequence: 1 YERLRVTHQTGGXEYFRF.....RRIIYVATGKNQMWLPVX 533

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA*
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5: /cgn_6/ptodata/2/iaa/PTUS_COMB.psp:*
6: /cgn_6/ptodata/2/iaa/backfiles.psp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2505	95.8	564	4	US-08-776-059-35
2	1267.5	48.5	263	4	US-08-776-059-43
3	1267.5	48.5	264	4	US-08-776-059-33
4	1155.5	44.2	253	4	US-08-776-059-31
5	1109.5	42.4	540	1	US-08-776-059-77
6	1109.5	42.4	540	1	US-08-485-286-77
7	1073.5	41.0	235	4	US-08-776-059-39
8	447	17.1	250	1	US-08-378-761A-71
9	447	17.1	250	1	US-08-485-286-71
10	404.5	15.5	534	2	US-08-356-786-10
11	377.5	14.4	267	1	US-07-901-707-1
12	377.5	14.4	267	1	US-07-988-430-1
13	377.5	14.4	267	1	US-07-988-430-1
14	377.5	14.4	267	1	US-08-218-303-16
15	377.5	14.4	267	1	US-08-425-336-1
16	377.5	14.4	267	1	US-08-488-113B-1
17	377.5	14.4	267	1	US-08-477-484B-1
18	377.5	14.4	267	2	US-08-646-360-1
19	377.5	14.4	267	2	US-08-338-793D-61
20	377.5	14.4	267	4	US-08-839-765-1
21	377.5	14.4	267	4	US-09-136-389-1
22	377.5	14.4	267	5	PCT-US92-09487-1
23	377.5	14.4	268	2	US-08-356-786-8
24	377.5	14.3	290	1	US-08-378-761A-27
25	373.5	14.3	290	1	US-08-485-286-27
26	373.5	14.3	290	6	5248606-4
27	322.5	12.3	282	1	US-08-324-301-15

28 308.5 11.8 267 1 US-08-378-761A-74 Sequence 74, Appl
29 308.5 11.8 267 1 US-08-485-286-74 Sequence 74, Appl
30 306.5 11.7 247 1 US-08-488-113B-6 Sequence 6, Appl
31 306.5 11.7 247 1 US-08-477-484B-6 Sequence 6, Appl
32 306.5 11.7 247 2 US-08-646-360-6 Sequence 6, Appl
33 306.5 11.7 247 4 US-08-839-765-6 Sequence 6, Appl
34 306.5 11.7 247 4 US-09-136-389-6 Sequence 6, Appl
35 306.5 11.7 247 4 US-09-610-838-6 Sequence 6, Appl
36 301.5 11.5 289 1 US-07-923-692C-4 Sequence 4, Appl
37 301.5 11.5 289 2 US-08-184-237-4 Sequence 4, Appl
38 301.5 11.5 289 2 US-08-482-920-4 Sequence 4, Appl
39 301.5 11.5 289 3 US-08-484-341-4 Sequence 4, Appl
40 301.5 11.5 289 4 US-08-483-502-4 Sequence 4, Appl
41 301.5 11.5 289 4 US-09-726-651A-4 Sequence 4, Appl
42 291 11.1 263 1 US-07-901-707-4 Sequence 4, Appl
43 291 11.1 263 1 US-07-988-430-4 Sequence 4, Appl
44 291 11.1 263 1 US-08-425-336-4 Sequence 4, Appl
45 291 11.1 263 1 US-08-488-113B-4 Sequence 4, Appl

ALIGNMENTS

RESULT 1

US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; CURRENT APPLICATION NUMBER: 674503-2003
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-35

Query Match 95.8%; Score 2505; DB 4; Length 564;
Best Local Similarity 91.9%; Pred. No. 6.2e-274;
Matches 489; Conservative 2; Mismatches 39; Indels 2; Gaps 2;

QY 1 YERLRVTHQTGGXEYFRFITLLRDYVSGSFSNEIPLLRQSTIPVSDAQRVFLVELTN 60
DB 34 YERLRVTHQTGGXEYFRFITLLRDYVSGSFSNEIPLLRQSTIPVSDAQRVFLVELTN 93
QY 61 QGXDSTAAIDVTNXXVAYQAGDSYFLRDAPRGAEHLFTGTTXSSLPFGXSXDLE 120
DB 94 QGXDSTAAIDVTNXXVAYQAGDSYFLRDAPRGAEHLFTGTTXSSLPFGXSXDLE 152
QY 121 RVAGHRDQIPGLIQXQLIQSVXALRPGGSTRQARSILILIOISEAARFNPTILWEXRQX 180
DB 153 RVAGHRDQIPGLIQXQLIQSVXALRPGGSTRQARSILILIOISEAARFNPTILWEXRQX 212
QY 181 INSGXSFPLDXVMELETSWGQOSTQVQHSHTDGVNPNPRLAIXXGNFVTLXNRXVIAS 240
DB 213 INSGXSFPLDXVMELETSWGQOSTQVQHSHTDGVNPNPRLAIXXGNFVTLXNRXVIAS 272
QY 241 LAIMLVFCGERPSSSDVRYWPLVIRPVIADVTCSAEPVIRVGRXGMXVDVDRDDDFD 300
DB 273 LAIMLVFCGERPSSSDVRYWPLVIRPVIADVTCSAEPVIRVGRXGMXVDVDRDDDFD 332
QY 301 GNOQLWFSKNNPNQLTKRDXTKRSNGSCLTGYTAGVYVMI FDCNTAVREATIW 360

us-09-601-667c-1.ra1

Sat Mar 22 10:41:04 2003

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; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 33
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
; US-08-776-059-33

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Query Match 48.5%; Score 1267.5; DB 4; Length 264;
Best Local Similarity 91.6%; Pred. No. 9.2e-135;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;

QY 270 DDVTCASSEPTVRIVGRXGMXVDVDDDFDGHGNIQLWPSSKNNDPNQLWTIKRDXTIRS 329
Db 2 DDVTCASSEPTVRIVGRXGMXVDVDDDFDGHGNIQLWPSSKNNDPNQLWTIKRDXTIRS 61
QY 330 NGSLTTYGYTAGVYVMIFDCNTAVREATIWOIXNGTIIINPRSNLVLAASSGIGKTTLT 389
Db 62 NGSLTTYGYTAGVYVMIFDCNTAVREATIWOIXNGTIIINPRSNLVLAASSGIGKTTLT 121
QY 390 VQTLDTLGGWLAGNDTAPREVTIYGRDLCMESNKGXSVVWVETCVSSQKNQ-RWALYGD 449
Db 122 VQTLDTLGGWLAGNDTAPREVTIYGRDLCMESNKGXSVVWVETCVSSQKNQ-RWALYGD 180
QY 450 GSIRPKNQDQCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEAXILNLKXXXXXVQA 509
Db 181 GSIRPKNQDQCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEAXILNLKXXXXXVQA 240
QY 510 NPKLRRIIYPATGKPNQMWLPV 532
Db 241 NPKLRRIIYPATGKPNQMWLPV 263

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```

RESULT 4
US-08-776-059-31
; Sequence 31, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 31
; LENGTH: 253
; TYPE: PRT
; ORGANISM: Viscum album
; US-08-776-059-31

```

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Query Match 44.2%; Score 1155.5; DB 4; Length 253;
Best Local Similarity 91.7%; Pred. No. 3.8e-122;
Matches 232; Conservative 1; Mismatches 19; Indels 1; Gaps 1;

QY 1 YERLRLRVTHQTTGXEYFRFITLLRDYVSSGFSNEIPLLRSTIPVSDAQRFLVELIN 60

```

```

; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
; US-08-776-059-43

```

```

Query Match 48.5%; Score 1267.5; DB 4; Length 263;
Best Local Similarity 91.6%; Pred. No. 9.2e-135;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;

QY 270 DDVTCASSEPTVRIVGRXGMXVDVDDDFDGHGNIQLWPSSKNNDPNQLWTIKRDXTIRS 329
Db 1 DDVTCASSEPTVRIVGRXGMXVDVDDDFDGHGNIQLWPSSKNNDPNQLWTIKRDXTIRS 60
QY 330 NGSLTTYGYTAGVYVMIFDCNTAVREATIWOIXNGTIIINPRSNLVLAASSGIGKTTLT 389
Db 61 NGSLTTYGYTAGVYVMIFDCNTAVREATIWOIXNGTIIINPRSNLVLAASSGIGKTTLT 120
QY 390 VQTLDTLGGWLAGNDTAPREVTIYGRDLCMESNKGXSVVWVETCVSSQKNQ-RWALYGD 449
Db 121 VQTLDTLGGWLAGNDTAPREVTIYGRDLCMESNKGXSVVWVETCVSSQKNQ-RWALYGD 179
QY 450 GSIRPKNQDQCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEAXILNLKXXXXXVQA 509
Db 180 GSIRPKNQDQCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEAXILNLKXXXXXVQA 239
QY 510 NPKLRRIIYPATGKPNQMWLPV 532
Db 240 NPKLRRIIYPATGKPNQMWLPV 262

```

```

RESULT 3
US-08-776-059-33
; Sequence 33, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
; US-08-776-059-43

```

```

Query Match 48.5%; Score 1267.5; DB 4; Length 263;
Best Local Similarity 91.6%; Pred. No. 9.2e-135;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;

QY 270 DDVTCASSEPTVRIVGRXGMXVDVDDDFDGHGNIQLWPSSKNNDPNQLWTIKRDXTIRS 329
Db 1 DDVTCASSEPTVRIVGRXGMXVDVDDDFDGHGNIQLWPSSKNNDPNQLWTIKRDXTIRS 60
QY 330 NGSLTTYGYTAGVYVMIFDCNTAVREATIWOIXNGTIIINPRSNLVLAASSGIGKTTLT 389
Db 61 NGSLTTYGYTAGVYVMIFDCNTAVREATIWOIXNGTIIINPRSNLVLAASSGIGKTTLT 120
QY 390 VQTLDTLGGWLAGNDTAPREVTIYGRDLCMESNKGXSVVWVETCVSSQKNQ-RWALYGD 449
Db 121 VQTLDTLGGWLAGNDTAPREVTIYGRDLCMESNKGXSVVWVETCVSSQKNQ-RWALYGD 179
QY 450 GSIRPKNQDQCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEAXILNLKXXXXXVQA 509
Db 180 GSIRPKNQDQCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEAXILNLKXXXXXVQA 239
QY 510 NPKLRRIIYPATGKPNQMWLPV 532
Db 240 NPKLRRIIYPATGKPNQMWLPV 262

```


Db 2 YERIRLRVTHOTTGEEYFRFTLLRDYVSSGFSFNEIPLLRQSTIPVSDAQRFLVLTN 61
QY 61 QGXSXTAAIDVTNXYVAYQAGQSYFLRDPAGRAETHLETGTRXSLSPFXGSYDLE 120
Db 62 QGDSITAAIDVTNLYVAYQAGQSYFLRDPAGRAETHLETGTR-SSLPFGNSYDLE 120
QY 121 RYAGHRDQIPLGIXQLQTSVXALXPQGSTXQARSILILQIMISEAARFNPILWRXQX 180
Db 121 RYAGHRDQIPLGIDOLIQSVTALRFPQGSTRTQARSILILQIMISEAARFNPILWRQY 180
QY 181 INSGXSLPDXMYMLELETSWGQSTQVQHSYDGVFNPNPRLAIXXGNFVTLXNVRXVIAS 240
Db 181 INSGASFLPDVYMLELETSWGQSTQVQHSYDGVFNPNPRLAIXXGNFVTLXNVRXVIAS 240
QY 241 LAIMLVCGGERPS 253
Db 241 LAIMLVCGGERPS 253

RESULT 5
US-08-378-761A-77
; Sequence 77, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-77

Query Match 42.4%; Score 1109.5; DB 1; Length 540;
Best Local Similarity 45.2%; Pred. No. 1.9e-116;
Matches 242; Conservative 79; Mismatches 195; Indels 19; Gaps 10;
QY 9 THQTTGXEYFRFTLLRDYVSSGFSFNEIPLLRQSTIPVSDAQRFLVLTNQCXDSX 66
Db 13 TADATVESYTNFIRAVRSLTTCADVRHPIPLNRVGLPIS--QRFTLVLSNHAELSV 70
QY 67 TAAIDVTNXYVAYQAGQSYFLRDPAGRAETHLETGTRXSLSPFXGSYDLE 123

Db 71 TLALDVTNAYVVGCRAGNSAYFFHPDNOEDAEATHLEFDVQNSFTFAFGNYDRLEQLG 130
QY 124 GHRDQIPLGIXQLQTSVXAL---RXPQGSTXQARSILILQIMISEAARFNPILWRXQX 180
Db 131 GLRNIELGTGPLEDAISALSYSTCGTQIPTLARSEFMCVCIQMISEAARFOYIEGEMR 190
QY 181 INSGXSLPDXMYMLELETSWGQSTQVQHSYDGVFNPNPRLAIXXGNFVTLXNVRXVIAS 240
Db 191 IRYNRRSAPSPVITLLENSNGRLSTAQESNOGAFASPIQLQRRNGSKFNVDYSILPI 250
QY 241 LAIMLVCGGERPSSDVRYWPLVIRPVAD---DVTCSASEPTVRIVGRXGMXVDVDRDD 297
Db 251 IALMVRRCAPPPSQ---FSLIRPVVPFNADV-CMDPEPVIIVRGNGLCVDVTGEE 305
QY 298 FHDGNOIQLWPSKSNNDPNOLWTIKRDXTIRSNGLTCTTYGYTAGVYVMTFDCNTAVREA 357
Db 306 FFDGNIQLWPKSNTDMNLQTLRKDSTIRSNGLTCTSKSPROQOVWYINCSTATVGA 365
QY 358 TIWQIWXNGTIIINPRNLVLAASSGIGKTTLVQTTLDYTLGQGLAGNDTAPREVITYGF 417
Db 366 TRWQIWDNRITIIINPRSGVLAATSGNSGTCLTVQTNIVAVSQGLPTNNTQPFVTVI 425
QY 418 RDLCMESNKGXVWVETCSXSOXNXXWALYGDGSIIPKQNDQCLTXGDRDSVSTVINIVS 477
Db 426 YGMCLQANSKGWLEDCSTSEKABQ-QWALYADGSIIPKQNDQCLTXGDRDSVSTVINIVS 477
QY 478 CSXSKXQXQWVFTNEXAILNLKXXXVVAQANPKRLRIIYIPATGKPNQMLPV 532
Db 485 CGPASSGQRMWPKNDGTILNLYGLVLDVRRSDPSLKOIIVHVFHGNLNLQIWLPL 539

RESULT 6
US-08-485-286-77
; Sequence 77, Application US/08485286
; Patent No. 5646026
; Patent No. 5646026 5646119
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid

us-09-601-667c-1.ra1

Sat Mar 22 10:41:04 2003

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-286-77

Query Match 42.4%; Score 1109.5; DB 1; Length 540;
Best Local Similarity 45.2%; Pred. No. 1.9e-116;
Matches 242; Conservative 79; Mismatches 195; Indels 19; Gaps 10;

Qy 9 THQTTGXEFRTILRDYVSSGS-FSNEIPLL-RQSTIPVSDAORFVLVELTNOGXDSX 66
Db 13 TADATVETNFIRAVRSHLTGADVRHEIPVLPNRVGLPIS--QRFILVELSNHAELSV 70

Qy 67 TAAIDVTNXYVAYQAGDOSYELR-DAPGAE--THLFTGTRXSLSPLFXGSDYLERYA 123
Db 71 TLALDVTNAYVVCGRAGNAYFPHPNQDEDAEAITHLFTDVQNSFTFAFGGNYDRLEQLG 130

Qy 124 CHRDOIPLGIXLIQSVXAL---RXPGGSTRXQARSILILQIMISEAARFNPILRXRXQ 180
Db 131 GLRENIELGTGLEDAISALYYSTCGTQPTILARSPFVCIQIMISEAARFQYIEGEMRTR 190

Qy 181 INSGXFLPDXMYLETSWGQOSTQVQHSTGDFVNNPXLAIXXGNFVTLXNVXVVIAS 240
Db 191 IRYNRSAPDPVITLNSWGLSTAIQESNQGAFAPIQLQRNGSKFNVDVSLIPI 250

Qy 241 LAIMLVCGERPSSDVRVPLVRPIAD---DVTCSASEPTVRIVGRXGMVVDVDRDD 297
Db 251 IALMVYCAPPPSQ----FSLLRPVVPNFENADV-CMDPEPIVRIVGRNGLCVDVTGEE 305

Qy 298 FHDGNOIQLMPSKNNPNQMLTKRDXTRNSGSLTYTYTAGVYVMPIDONTAVREA 357
Db 306 PFDGNIQLWPKCKNTDWNQLWTLRKDSTIRNGKCLTISKSPRQVVIYNCSTAVGA 365

Qy 358 TIQIWNXGTTIIPRNSNLVLAASSGIKTTTQVTLDTLQGLAGNDTAPREVITYGF 417
Db 366 TRQIWNDRTTIIPRNSGLVLAASTNSGTLVQTNIVAVSQGLPTNTTQPFVTTIUGL 425

Qy 418 RDLCHESKXGVSVVETCXSSOXNOXXWALYGDGSTRPKQNOQCLTXGRDSVSTVINIVS 477
Db 426 YMCLOANSKGVLEDCSTSEKAEQ-QWALYADGSIIRPQNRDNCCLTTDANIKGTVVKILS 484

Qy 478 CSXXSXQRWVTNEXAILNLKXXXXXVQAQNPRLRIIIVPATGKPNQMLPV 532
Db 485 CGPASSGQRWMPKNDGTILNLYGLVLDVRRSDPSLKLQIIVHFFHGNLQIWLPL 539

RESULT 7
US-08-776-059-39
Sequence 39, Application US/08776059B
Patent No. 6271368
GENERAL INFORMATION:
APPLICANT: LENTZEN, Hans
APPLICANT: ECK, Juergen
APPLICANT: BAUR, Axel
APPLICANT: ZINKE, Holger
TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
FILE REFERENCE: 674503-2003
CURRENT APPLICATION NUMBER: US/08/776,059B
CURRENT FILING DATE: 1999-06-19
EARLIER APPLICATION NUMBER: PCT/EP96/02273
EARLIER FILING DATE: 1996-06-25
EARLIER APPLICATION NUMBER: 95109949.8
EARLIER FILING DATE: 1995-06-26
NUMBER OF SEQ ID NOS: 56
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 39
LENGTH: 235
TYPE: PRP
ORGANISM: Viscum album
US-08-776-059-39

Query Match 41.0%; Score 1073.5; DB 4; Length 235;
Best Local Similarity 91.9%; Pred. No. 6.1e-113;

Matches 217; Conservative 0; Mismatches 18; Indels 1; Gaps 1;

Qy 18 PRFTILRDYVSSGSFSNEIPLLQSTIPVSDAORFVLVELTNOGXDSXTAAIDVTNXYV 77
Db 1 PRFTILRDYVSSGSFSNEIPLLQSTIPVSDAORFVLVELTNOGGDSITAAIDVTNLYV 60

Qy 78 VAYQAGDOSYELRDAPRGAETHLFTGTRXSLSPLFXGSDYLERYAGHRDOIPLGIXOLI 137
Db 61 VAYQAGDOSYELRDAPRGAETHLFTGTR--SSLPNGSYPDLERYAGHRDOIPLGIDQI 119

Qy 138 QSVXALRXPGSGSTRXQARSILILQIMISEAARFNPILRXRXQINSXGSFLLPDXMYMLE 197
Db 120 QSVTALRPFSGSTRXQARSILILQIMISEAARFNPILRXRXQINSXGSFLLPDXMYMLE 179

Qy 198 TSWGQOSTQVQHSTGDFVNNPXLAIXXGNFVTLXNVXVVIASLAIMLVCGERP 253
Db 180 TSWGQOSTQVQHSTGDFVNNPXLAIXXGNFVTLXNVXVVIASLAIMLVCGERP 235

RESULT 8
US-08-378-761A-71
Sequence 71, Application US/08378761A
Patent No. 5635384
GENERAL INFORMATION:
APPLICANT: WALSH, TERENCE A
APPLICANT: HEY, TIMOTHY D
APPLICANT: MORGAN, ALICE ER
TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
TITLE OF INVENTION: USING
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
ADDRESS: ANDREA T. BORUCKI
STREET: 9330 ZIONSVILLE ROAD
CITY: INDIANAPOLIS
STATE: IN
COUNTRY: US
ZIP: 46268
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/378,761A
FILING DATE: 26-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BORUCKI, ANDREA T
REGISTRATION NUMBER: 33651
REFERENCE/DOCKET NUMBER: 38272B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 337-4846
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 250 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-378-761A-71

Query Match 17.1%; Score 447; DB 1; Length 250;
Best Local Similarity 41.7%; Pred. No. 3.5e-42;
Matches 105; Conservative 34; Mismatches 87; Indels 26; Gaps 7;

Qy 9 THQTTGXEFRTILRDYVSSGSFSNEIPLLQSTIPVSDAORFVLVELTNOGXDSXTA 68
Db 9 TEGATSQSYKQFIARLERL-RGGLIHDPVLPDPT-TLQERNVITVELNSDSTESIEV 66

Qy 69 AIDVTNXYVAYQAGDOSYELRDAPRGAETHLFTGTRXSLSPLFXGSDYLERYAGHRD 127
Db 67 GIDVTNXYVAYRAGTQSYFLRDAPSSADYLTGTDO-HSLPFYGTGDLERWAHQSRQ 125

Qy	128	QIPLGIXQLTSVXVALRXPGSGTRFXQARSILILQIMISEAARFNPTLWEXROXINSXS	187
Dd	126	QIPGLQALPHGISFFRSGGNDNEEKARTLIIVIQWAEAAFRYSINRVRSIQGTAF	185
Qy	188	LPPXYMLELSTSCQGOSTQVGHSDGVFNNPXRRLATXXGNFTLVNXVX-	236
Dd	186	QPDAAMISLENNW-DNLRGVQESVDTFNQ-----VTLINRPVIDLSLHP	234
Qy	237	VIASLAIMLFVC	248
Dd	235	TVAVLAIMLFVC	246

```

RESULT 10
US-08-356-786-10
; Sequence 10, Application US/08356786
; Patent No. 5877305
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Oppermann, Hermann
; APPLICANT: Houston, L. L.
; APPLICANT: Ring, David B.
; TITLE OF INVENTION: Biosynthetic Binding Protein for Cancer
; TITLE OF INVENTION: Marker
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Edmund R. Pitcher, Testa, Hurwitz, & Thibault
; STREET: Exchange Place, 53 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/356,786
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/831,967
; FILING DATE: 06-FEB-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Pitcher, Edmund R.
; REGISTRATION NUMBER: 27,829
; REFERENCE/DOCKET NUMBER: CRP-053
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-7000
; TELEFAX: (617) 248-7100
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 534 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-356-786-10

```

Query Match	15.5%;	Score	404.5;	DB 2;	Length	534;
Best Local Similarity	27.8%;	Pred. No.	7, 1e-37;			
Matches	142;	Conservative	76;	Mismatches	170;	Indels
					123;	Gaps
						22;
9	THQTGXBYFRITLLRDYVSSGS--FSNEIPLT-RQSTIPVSDAQRFVLVELTNOGXDSX	66				
16	TAGATVQSYTNFIRAVRGLTTGADVREHIVLPVNEVGIPIN--QRFLVVELSNHAELSV	73				
67	TAAIDVTNXYVVAQAGQDSYFLR-DAPRGAE--TLHFTGTRXXSLPFGXSYDLERYA	123				
74	TLALDVTNAYVVGVRAGNSAYFFHFDNQDEAEAITHLFTDVQNYRTFAGGNYDRLEOLA	133				
124	GH-RDQIPLGLXLIQSVXAL---RXPGGSTRXQARSILILQIMISEAAAFNPILWRXHQ	179				

MOLECULE TYPE: protein
US-07-901-707-1

Query Match 14.4%; Score 377.5; DB 1; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.7e-34;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;

QY 9 THOTTGXEFRTILRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQCXDSX 66
Db 13 TAGATVQSYNFINRAVGRLLTGADVRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNXXVYAYQAGDSYFLR-DAPRGAE--THLFTGTRXSSLPXGXYDLERYA 123
Db 71 TLALDVTNAVYVGRAGNSAYFFHPDNQDEAETHLFTDVQNRVTFAPFGNYDLRLEQA 130
QY 124 GH-RDQIPGLGXQLIQSVXAL---RXPGGSTRXQARSILILIQMISEAARENPILMRXRO 179
Db 131 GNRENIELNGPLBEAIALYIYYSTGGTQPLTARSFIICMIOMISEAARFOYIEGEMT 190
QY 180 XINSXSFPLDPXYMLETSMGQOSTQVQHSDTGTVFNPNPRLAIXXGNFVTLXNVKXVIA 239
Db 191 RIRYNRSAPDPSVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSYVDVSLIP 250
QY 240 SLAIMLFVCGERPSS 254
Db 251 IIALMVYRCAPPSS 265

RESULT 12

US-07-988-430-1
; Sequence 1, Application US/07988430
; Patent No. 5416202
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Lane, Julie A.
; APPLICANT: Lei, Shau-Ping
; TITLE OF INVENTION: Materials Comprising and Methods of
; TITLE OF INVENTION: Preparation and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 101
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/988,430
; FILING DATE: 19921209
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5416202and, Greta E.
; REGISTRATION NUMBER: 35302
; REFERENCE/DOCKET NUMBER: 31133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-9740
; TELEX: 25-3856

Db 134 GNRENIELNGPLBEAIALYIYYSTGGTQPLTARSFIICMIOMISEAARFOYIEGEMT 193
QY 180 XINSXSFPLDPXYMLETSMGQOSTQVQHSDTGTVFNPNPRLAIXXGNFVTLXNVKXVIA 239
Db 191 RIRYNRSAPDPSVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSYVDVSLIP 253
QY 240 SLAIMLFVCGERPSSDVRYPVLPVADDDVTSASEPTVIRVGRXGMXYDVRDDDFH 299
Db 254 IIALMVYRCAPPSSQ---FSLIRPVVFNADVCMDPEIQLV-----Q 295
QY 300 DGNQIQLPWSKNNPNQLWTIKRDXITFNSGSLTYG-----Y 339
Db 296 SGPELK-----KPGE--TVK--ISCKASGYTFANYGMNWKQAPGKGLKMGWINTY 343
QY 340 TA-GVVV-----MIFDCNTAVREARTI-----WQTXNGTIIINPR 372
Db 344 TQSYIYADDFKRFAPFSLTSAHTAHQIINLRNEDSATVFCARRFGFAYWGQTLVSVS 403
QY 373 SNLVLAASGIGKTTLTVTQDLYTLGCGWLAGNDTAPREVITYGFRDLCHMESXGNSVWE 432
Db 404 ASI---SSSGGGGS-----GGGGSGG-----GGSDIQMTQSPSSLSAS 438
QY 433 -----TCXSSO--XNOXW-ALYGDGSTR 453
Db 439 LGERVSLTCRASQDIGNSLTWLSQEPDGTIK 469

RESULT 11

US-07-901-707-1
; Sequence 1, Application US/07901707
; Patent No. 5376546
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Steve F.
; APPLICANT: Lane, Julie A.
; APPLICANT: Lei, Shau-Ping
; TITLE OF INVENTION: Materials Comprising and Methods of
; TITLE OF INVENTION: Composition and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/901,707
; FILING DATE: 19920619
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5376546and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27129/30910
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-5750
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 267 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-988-430-1

Query Match 14.4%; Score 377.5; DB 1; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.7e-34;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;
QY 9 THQTGXEYFFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNGQXDSX 66
Db 13 TAGATVQSYTFIRAVRGLTTGADVREIPLVLRNVLGPIN--ORFVLVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYOAGDSYFLR-DAPRGAE--THLFTGTTTRXSSLPFXGXYDLERYA 123
Db 71 TLALDVTNAYVVGVRAGNSAFFHPDNQEDAEATHLFTDQNRVTFAGGNYDRLEQLA 130
QY 124 GH-RDQIPLGIXQLIQSVKAL---RXPQGSTRXQARSILILIQMISEAARFNPILWRXQ 179
Db 131 GNLRNIELNGPLLEEAISALYYSTGTGTLARSFIIQIMISEAARFOYIEGMRT 190
QY 180 XINSXSPLDPXYMLELTSWQOSTQVQSTQVQSTQVQSTQVQSTQVQSTQVQSTQVQSTQV 239
Db 191 RIRYNRRSAPDPSPVITLNSWGRSLTAIQESNQGFASPIQLQRNGSKFSYDVDSILIP 250
QY 240 SLAIMLFVCGERPSS 254
Db 251 IIALMVYRCAPPSS 265

RESULT 13
US-08-218-303-16
Sequence 16, Application US/08218303
Patent No. 5547867
GENERAL INFORMATION:
APPLICANT: Kara, Bhupendra V.
APPLICANT: Hockney, Robert C.
APPLICANT: Fitton, John E.
TITLE OF INVENTION: FERMENTATION PROCESS
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cushman, Darby & Cushman
STREET: 1615 L Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/218,303
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/841,533
FILING DATE: 26-FEB-1992
ATTORNEY/AGENT INFORMATION:
NAME: Kokulis, Paul N.
REGISTRATION NUMBER: 16,773
REFERENCE/DOCKET NUMBER: PNK/3893/94908/MJW
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 267 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-218-303-16

Query Match 14.4%; Score 377.5; DB 1; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.7e-34;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;
QY 9 THQTGXEYFFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNGQXDSX 66
Db 13 TAGATVQSYTFIRAVRGLTTGADVREIPLVLRNVLGPIN--ORFVLVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYOAGDSYFLR-DAPRGAE--THLFTGTTTRXSSLPFXGXYDLERYA 123
Db 71 TLALDVTNAYVVGVRAGNSAFFHPDNQEDAEATHLFTDQNRVTFAGGNYDRLEQLA 130
QY 124 GH-RDQIPLGIXQLIQSVKAL---RXPQGSTRXQARSILILIQMISEAARFNPILWRXQ 179
Db 131 GNLRNIELNGPLLEEAISALYYSTGTGTLARSFIIQIMISEAARFOYIEGMRT 190
QY 180 XINSXSPLDPXYMLELTSWQOSTQVQSTQVQSTQVQSTQVQSTQVQSTQVQSTQVQSTQV 239
Db 191 RIRYNRRSAPDPSPVITLNSWGRSLTAIQESNQGFASPIQLQRNGSKFSYDVDSILIP 250
QY 240 SLAIMLFVCGERPSS 254
Db 251 IIALMVYRCAPPSS 265

RESULT 14
US-08-425-336-1
Sequence 1, Application US/08425336
Patent No. 5621083
GENERAL INFORMATION:
APPLICANT: Better, Marc D.
APPLICANT: Carroll, Stephen F.
APPLICANT: Studnika, Gary M.
TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
TITLE OF INVENTION: Proteins
NUMBER OF SEQUENCES: 140
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/425,336
FILING DATE: 18-APR-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/064,691
FILING DATE: 12-MAY-1993
APPLICATION NUMBER: US 07/901,707
FILING DATE: 19-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Thomas C.
REGISTRATION NUMBER: P-36,989
REFERENCE/DOCKET NUMBER: 31394
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-425-336-1

Query Match 14.4%; Score 377.5; DB 1; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.7e-34;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;
; QY 9 THQTGXEFRTILLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNOGXDSX 66
; DB 13 TAGATVQSYTNFIRAVRGLTTGADVRIHPVLPNEVGLPIN--QRFLVELSNHAELSV 70
; QY 67 TAAIDVTNXYVAYQAGDQSYFLR-DAPRGAE--THLFTGTTRXSSLPFGXSYXDLERYA 123
; DB 71 TLALDVTNAYVVGVRAGNSAYFFHPDQEDAEATHLFTDVQNRVYTFAGGNYDRLEOLA 130
; QY 124 GH-RDQIPLGIXQLIQSVXAL---RXPGGSTRXQARSILILQIMISEAARENFILWRXQ 179
; DB 131 GNLRENIELGNPLBEAISALYYSTGGTQLPTLARSFIICIMISEAARFQYIEGEMRT 190
; QY 180 XINGSGXFLPDXYMLETSSWQOQSTQVQHSHTDGVFNPNXRLAIXXGNFVTLXNVXVIA 239
; DB 191 RIRYNRSAPDSPSVITLNSWGRLSTAIQESNQGAFASPIQLQRRNGSKFSVVDVILIP 250
; QY 240 SLAIMLFVCGGERPSS 254
; DB 251 IIALMVRCAPPSS 265

RESULT 15

US-08-488-113B-1
; Sequence 1, Application US/08488113B
; Patent No. 5744580
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,113B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/425,336
; FILING DATE: 18-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-488-113B-1

Query Match 14.4%; Score 377.5; DB 1; Length 267;
Best Local Similarity 38.8%; Pred. No. 2.7e-34;
Matches 99; Conservative 41; Mismatches 104; Indels 11; Gaps 7;
; QY 9 THQTGXEFRTILLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNOGXDSX 66
; DB 13 TAGATVQSYTNFIRAVRGLTTGADVRIHPVLPNEVGLPIN--QRFLVELSNHAELSV 70
; QY 67 TAAIDVTNXYVAYQAGDQSYFLR-DAPRGAE--THLFTGTTRXSSLPFGXSYXDLERYA 123
; DB 71 TLALDVTNAYVVGVRAGNSAYFFHPDQEDAEATHLFTDVQNRVYTFAGGNYDRLEOLA 130
; QY 124 GH-RDQIPLGIXQLIQSVXAL---RXPGGSTRXQARSILILQIMISEAARENFILWRXQ 179
; DB 131 GNLRENIELGNPLBEAISALYYSTGGTQLPTLARSFIICIMISEAARFQYIEGEMRT 190
; QY 180 XINGSGXFLPDXYMLETSSWQOQSTQVQHSHTDGVFNPNXRLAIXXGNFVTLXNVXVIA 239
; DB 191 RIRYNRSAPDSPSVITLNSWGRLSTAIQESNQGAFASPIQLQRRNGSKFSVVDVILIP 250
; QY 240 SLAIMLFVCGGERPSS 254
; DB 251 IIALMVRCAPPSS 265

Search completed: March 22, 2003, 09:59:33
Job time : 19.4506 secs

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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 8.14815 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-3

Perfect score: 1327

Sequence: 1 DDVTCASAEPTVRIVGRXGM.....RRRIIYPATGKNQMWLPVX 264

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/2/iaa/6C_COMB.pep.*
- 6: /cgn2_6/ptodata/2/iaa/6D_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1267.5	95.5	263	4	US-08-776-059-43
2	1267.5	95.5	264	4	US-08-776-059-33
3	1267.5	95.5	564	4	US-08-776-059-35
4	726.5	54.7	540	1	US-08-378-761A-77
5	726.5	54.7	540	1	US-08-485-286-77
6	158.5	11.9	293	4	US-09-512-342-14
7	122	9.2	132	4	US-09-159-106-15
8	122	9.2	435	4	US-09-159-106-11
9	117.5	8.9	480	2	US-08-468-812-5
10	117.5	8.9	480	2	US-08-590-563-5
11	117.5	8.9	492	2	US-08-468-812-4
12	117.5	8.9	492	2	US-08-590-563-7
13	117.5	8.9	492	2	US-08-468-812-7
14	117.5	8.9	492	2	US-08-590-563-7
15	115.5	8.7	491	2	US-08-468-812-8
16	115.5	8.7	491	2	US-08-590-563-8
17	115	8.7	127	1	US-08-392-828C-39
18	115	8.7	127	3	US-09-330-945-39
19	109.5	8.3	507	4	US-09-130-337A-25
20	79.5	6.0	420	2	US-08-282-197C-63
21	79.5	6.0	420	2	US-08-282-197C-66
22	78.5	5.9	419	2	US-08-282-197C-64
23	78.5	5.9	419	2	US-08-282-197C-67
24	76	5.7	434	2	US-08-468-812-6
25	76	5.7	434	2	US-08-590-563-6
26	75.5	5.7	770	4	US-09-245-248B-31
27	74	5.6	704	3	US-08-792-832A-2

28	71	5.4	638	1	US-08-712-241-6	Sequence 6, Appli
29	70.5	5.3	517	2	US-08-967-508-19	Sequence 19, Appl
30	70.5	5.3	517	3	US-08-967-506-19	Sequence 19, Appl
31	70.5	5.3	517	5	PCT-US94-02552-19	Sequence 19, Appl
32	70.5	5.3	559	2	US-08-967-508-9	Sequence 9, Appli
33	70.5	5.3	559	3	US-08-967-506-9	Sequence 9, Appli
34	70.5	5.3	559	5	PCT-US94-02552-9	Sequence 9, Appli
35	70	5.3	325	2	US-08-828-922-3	Sequence 3, Appli
36	69.5	5.2	178	1	US-08-044-621D-32	Sequence 32, Appl
37	69.5	5.2	178	2	US-08-709-912-15	Sequence 15, Appl
38	69.5	5.2	178	2	US-09-047-370-15	Sequence 15, Appl
39	69.5	5.2	229	2	US-08-121-436A-4	Sequence 4, Appli
40	69.5	5.2	229	2	US-08-559-524A-4	Sequence 4, Appli
41	69.5	5.2	373	3	US-08-749-707-4	Sequence 4, Appli
42	69.5	5.2	1912	1	US-08-409-995-4	Sequence 4, Appli
43	69.5	5.2	1912	3	US-08-685-467-4	Sequence 4, Appli
44	69.5	5.2	2353	4	US-09-377-155-33	Sequence 33, Appli
45	69.5	5.2	2353	4	US-08-913-942-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-776-059-43
; Sequence 43, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jürgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; CURRENT APPLICATION NUMBER: 674503-2003
; EARLIER FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-43

Query Match	95.5%	Score 1267.5;	DB 4;	Length 263;
Best Local Similarity	91.6%	Pred. No. 7.1e-139;		
Matches 241;	Conservative	1;	Mismatches 20;	Indels 1; Gaps 1;
QY	1	DDVTCASAEPTVRIVGRXGMXVDVDDFDHGNQIQWLWPSKNNDPNQLWTIKRDXTIRS	60	
Db	1	DDVTCASAEPTVRIVGRXGMXVDVDDFDHGNQIQWLWPSKNNDPNQLWTIKRDXTIRS	60	
QY	61	NGSCLTYGYTAGVYVIMFDCNTAVREATIWLQWNGTINPRSNLVLAASSGKGTTLT	120	
Db	61	NGSCLTYGYTAGVYVIMFDCNTAVREATIWLQWNGTINPRSNLVLAASSGKGTTLT	120	
QY	121	VOTLDVTLGGWLAGNDTAPREVTIYGFRLDLCMESXNGSVVWVETCSXSNQXKXWALYGD	180	
Db	121	VOTLDVTLGGWLAGNDTAPREVTIYGFRLDLCMESXNGSVVWVETCSXSNQXKXWALYGD	180	
QY	181	GSIRPKQNDQCLTGRDSDSVTVINIVSCSXXKQXQWVFTNEAXILNLKXXXXXVAQA	240	
Db	181	GSIRPKQNDQCLTGRDSDSVTVINIVSCSXXKQXQWVFTNEAXILNLKXXXXXVAQA	240	
QY	241	NPKLRIIYYPATGKNQMWLPV 263		
Db	241	NPKLRIIYYPATGKNQMWLPV 263		

Sat Mar 22 10:41:18 2003

US-08-776-059-35

RESULT 2
US-08-776-059-33
; Sequence 33, Application US/08776059B
; Patent No. 62711368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 33
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-33

Query Match 95.5%; Score 1267.5; DB 4; Length 264;
Best Local Similarity 91.6%; Pred. No. 7.2e-139;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;
QY 1 DDVTCASEPTVIRVGRGXMXVDVDDDFHDGNOIQIOLWPSKSNNDPNQIWKIKEDXTIRS 60
DB 2 DDVTCASEPTVIRVGRGXMXVDVDDDFHDGNOIQIOLWPSKSNNDPNQIWKIKEDXTIRS 61
QY 61 NGSLCTTYGYTAGVYVMIFDCNTAVREATIWOIWXNGTIIINPRSNLVLAASSGIGKTTLT 120
DB 62 NGSLCTTYGYTAGVYVMIFDCNTAVREATIWOIWXNGTIIINPRSNLVLAASSGIGKTTLT 121
QY 121 VOTLDYTLGQGLAGNDTAPREVTIYGFRLDCMESNKGXSVWVETCXSSQXQXXWALYGD 180
DB 122 VOTLDYTLGQGLAGNDTAPREVTIYGFRLDCMESNKGXSVWVETCXSSQXQXXWALYGD 180
QY 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSXSSXQXQXWVFTNEXAILNLKXXXXXVDAQA 240
DB 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSXSSQXQXWVFTNEXAILNLKXXXXXVDAQA 240
QY 241 NPKLRRIIYPATGKPNQMWLPV 263
DB 241 NPKLRRIIYPATGKPNQMWLPV 263

RESULT 3
US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Viscum album

US-08-776-059-35

Query Match 95.5%; Score 1267.5; DB 4; Length 564;
Best Local Similarity 91.6%; Pred. No. 2.1e-138;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;
QY 1 DDVTCASEPTVIRVGRGXMXVDVDDDFHDGNOIQIOLWPSKSNNDPNQIWKIKEDXTIRS 60
DB 302 DDVTCASEPTVIRVGRGXMXVDVDDDFHDGNOIQIOLWPSKSNNDPNQIWKIKEDXTIRS 361
QY 61 NGSLCTTYGYTAGVYVMIFDCNTAVREATIWOIWXNGTIIINPRSNLVLAASSGIGKTTLT 120
DB 362 NGSLCTTYGYTAGVYVMIFDCNTAVREATIWOIWXNGTIIINPRSNLVLAASSGIGKTTLT 421
QY 121 VOTLDYTLGQGLAGNDTAPREVTIYGFRLDCMESNKGXSVWVETCXSSQXQXXWALYGD 180
DB 422 VOTLDYTLGQGLAGNDTAPREVTIYGFRLDCMESNKGXSVWVETCXSSQXQXXWALYGD 480
QY 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSXSSXQXQXWVFTNEXAILNLKXXXXXVDAQA 240
DB 481 GSIRPKQNDQCLTGRDSVSTVINIVSCSXSSQXQXWVFTNEXAILNLKXXXXXVDAQA 540
QY 241 NPKLRRIIYPATGKPNQMWLPV 263
DB 541 NPKLRRIIYPATGKPNQMWLPV 563

RESULT 4
US-08-378-761A-77
; Sequence 77, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-77

Query Match 54.7%; Score 726.5; DB 1; Length 540;
Best Local Similarity 53.3%; Pred. No. 1e-75;
Matches 138; Conservative 36; Mismatches 84; Indels 1; Gaps 1;

QY 5 CSASEPTVIRVGRXGMXVDVDDDFHGNQIQIOLWPSKSNNDPNQLWTIKRDXITRSGSC 64
DB 282 CNDPEPIVIRVGRNGLCVDVTGEEFDFGNPIQLWPKCSNTDNQLWTLRKDSTIRSGKC 341
QY 65 LTTYGYTAGVYVWIFDCNTAVREATIWIQXNGTIINPRSNLVLAASSGIGKTTLTVOQL 124
DB 342 LTIKSSPRQVVIYNCSTATVGTATRWQIWDNRITINPRSGLVLAATSGNSGKLTVOQN 401
QY 125 DYTLOGWLAGNDTAPREVITYGFRDLCMESNKGXSVVETCSXSOXNQXWALYDGSIR 184
DB 402 IYAVSQWLPNTNPTOPFVTIIVGLYGMCLQANSKWLEDCITSEKAEQ-QWALYADGSIR 460
QY 185 PKONODCLTXGRDVSSTVINIVSCSXSSXXQXWVFTNEXAILNLKXXXXXVQAQNPXL 244
DB 461 PQNRDNCILTTDANIKGTIVKILSCGPASSGQRMWPKNDGTIILNGLVLDVRRSDPSL 520
QY 245 RRIIYPATGKPNQWMLPV 263
DB 521 KQIIVHPFHGNLQIWLPL 539

RESULT 5

US-08-485-286-77
; Sequence 77, Application US/08485286
; Patent No. 5646026
; Patent No. 5646026 5646119

GENERAL INFORMATION:

; APPLICANT: WALSH, TERENCE A

; APPLICANT: HEY, TIMOTHY D

; APPLICANT: MORGAN, ALICE ER

; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE

; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF

; TITLE OF INVENTION: USING

; NUMBER OF SEQUENCES: 81

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ANDREA T. BORUCKI

; STREET: 9330 ZIONSVILLE ROAD

; CITY: INDIANAPOLIS

; STATE: IN

; COUNTRY: US

; ZIP: 46268

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/485,286

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/378761

; FILING DATE: 26-JAN-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: BORUCKI, ANDREA T

; REGISTRATION NUMBER: 33651

; REFERENCE/DOCKET NUMBER: 38272B

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (317) 337-4846

; INFORMATION FOR SEQ ID NO: 77:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 540 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-485-286-77

Query Match

Best Local Similarity 54.7%; Score 726.5; DB 1; Length 540;

Matches 138; Conservative 36; Mismatches 84; Indels 1; Gaps 1

QY 5 CSASEPTVIRVGRXGMXVDVDDDFHGNQIQIOLWPSKSNNDPNQLWTIKRDXITRSGSC 64
DB 282 CNDPEPIVIRVGRNGLCVDVTGEEFDFGNPIQLWPKCSNTDNQLWTLRKDSTIRSGKC 341
QY 65 LTTYGYTAGVYVWIFDCNTAVREATIWIQXNGTIINPRSNLVLAASSGIGKTTLTVOQL 124
DB 342 LTIKSSPRQVVIYNCSTATVGTATRWQIWDNRITINPRSGLVLAATSGNSGKLTVOQN 401
QY 125 DYTLOGWLAGNDTAPREVITYGFRDLCMESNKGXSVVETCSXSOXNQXWALYDGSIR 184
DB 402 IYAVSQWLPNTNPTOPFVTIIVGLYGMCLQANSKWLEDCITSEKAEQ-QWALYADGSIR 460
QY 185 PKONODCLTXGRDVSSTVINIVSCSXSSXXQXWVFTNEXAILNLKXXXXXVQAQNPXL 244
DB 461 PQNRDNCILTTDANIKGTIVKILSCGPASSGQRMWPKNDGTIILNGLVLDVRRSDPSL 520
QY 245 RRIIYPATGKPNQWMLPV 263
DB 521 KQIIVHPFHGNLQIWLPL 539

RESULT 6

US-09-512-342-14

; Sequence 14, Application US/09512342

; Patent No. 6388068

; GENERAL INFORMATION:

; APPLICANT: SATOH, SHINOBU

; APPLICANT: MASUDA, SUSUMU

; TITLE OF INVENTION: METHOD FOR PRODUCING FOREIGN POLYPEPTIDE IN PLANT

; TITLE OF INVENTION: INTERCELLULAR FLUID

; FILE REFERENCE: 081356/0142

; CURRENT APPLICATION NUMBER: US/09/512,342

; CURRENT FILING DATE: 2000-02-24

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: Patent in Ver. 2.1

; SEQ ID NO 14

; LENGTH: 293

; TYPE: PRT

; ORGANISM: Cucumis sativus

US-09-512-342-14

Query Match

Best Local Similarity 11.9%; Score 158.5; DB 4; Length 293;

Matches 60; Conservative 27; Mismatches 98; Indels 39; Gaps 10;

QY 14 IVGRXGMXVDVDDDFHGNQIQIOLW-----PSK-----SNNDPNQLWTIKRDXITR-- 59
DB 41 LVGRDGLCLEMSP-----WYKPAGINFPIRLSPCDEKKOTQLWTIVGDGTIRPM 89
QY 60 SNGSCLTT---YGYTAGVYVWIFDCNTAVREATIWIQXNGTIINPRSNLVLAASSGIGK 116
DB 90 NDKFCLAAAEVFGVIN--KAVVSECGKVSYPNKKWTQKNDGTIALVDSRWVLTDGLDY-- 145
QY 117 TLTIVQTLDTYLGQWLAGNDTAPREVITYGFRDLCMESNKGX--VVETCSXSOXNQX 174
DB 146 --VTLOSNNKYTFPSQSWEVTESLNSMVANIEWLNNLCLOSTDDSSHVGLNGCNTDNKYQ-R 202
QY 175 WALYDGSIRPKQODCLTXGRDVSSTVINIVSCSXSSXXQXW 218
DB 203 WALYADGTIRQHVNNKNYCLTSDQDFGRFV--VVSKCEDKPKQQRW 244

RESULT 7

US-09-159-106-15

; Sequence 15, Application US/09159106

; Patent No. 6284509

; GENERAL INFORMATION:

; APPLICANT: Ferrer, Pau

; APPLICANT: Diers, Ivan

; APPLICANT: Halkier, Torben

; APPLICANT: Hedegaard, Lisbeth

; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase

; TITLE OF INVENTION: Activity

Db 437 CWGGANQK--WELRADGTIVGVQSLCLDAVGGTGNGTRLQ 476

RESULT 10
US-08-590-563-5
; Sequence 5, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arija
; APPLICANT: Vehmaanper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Maria
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
US-08-590-563-5

Query Match 8.9%; Score 117.5; DB 4; Length 480;
Best Local Similarity 31.4%; Pred. No. 3.3e-05;
Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;
Qy 22 VDVRRDDFDGNGIQIQLWPSKSNNDPNQLWTKIKRDXITIRNGS-CLTTYGYTAGVVMIFD 80
Db 379 IDVPNGNTADGTQVQLYDCHSGS--NQWTYTSSEGFIFGNKCLDAGGSSNGAVVQIYS 436
Qy 81 CNTAVREATIWIWNGTIINPRSNLVLAASSGIKGTTLTVQ 122

Db 437 CWGGANQK--WELRADGTIVGVQSLCLDAVGGTGNGTRLQ 476

Qy 81 CNTAVREATIWIWNGTIINPRSNLVLAASSGIKGTTLTVQ 122

Db 437 CWGGANQK--WELRADGTIVGVQSLCLDAVGGTGNGTRLQ 476

RESULT 11
US-08-468-812-4
; Sequence 4, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Arija
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Maria
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-468-812-4

Query Match 8.9%; Score 117.5; DB 2; Length 492;
Best Local Similarity 31.4%; Pred. No. 3.4e-05;
Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;
Qy 22 VDVRRDDFDGNGIQIQLWPSKSNNDPNQLWTKIKRDXITIRNGS-CLTTYGYTAGVVMIFD 80
Db 379 IDVPNGNTADGTQVQLYDCHSGS--NQWTYTSSEGFIFGNKCLDAGGSSNGAVVQIYS 436
Qy 81 CNTAVREATIWIWNGTIINPRSNLVLAASSGIKGTTLTVQ 122
Db 437 CWGGANQK--WELRADGTIVGVQSLCLDAVGGTGNGTRLQ 476

RESULT 12

us-09-601-667c-3.ra1

Sat Mar 22 10:41:18 2003

```
US-08-468-812-7
; Sequence 7, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaaper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kisko, Paula
; APPLICANT: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: of Use
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaieky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2540
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
; US-08-468-812-7

Query Match 8.9%; Score 117.5; DB 2; Length 492;
Best Local Similarity 31.4%; Pred. No. 3.4e-05;
Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 VVDRDDDFHGNQIQWLWPKSNNDPNQLWTKRDXITRSNGS-CLTTYGYTAGVYVMIFD 80
Db 379 IDVPNGNTADGTQVQLYDCHSGS--NQQWYTSSTSGEFRIFGNKCLDAGSGSNGAVVQIYS 436

QY 81 CNTAVREATIWOIWNKGTIINPRSNLVLAASSGIKGTTLTVQ 122
Db 437 CWGANOK--WELRADGTIVGVQSGLCGLDAGGGTGNGTRLQ 476

RESULT 13
US-08-590-563-4
; Sequence 4, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmaaper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kisko, Paula
; APPLICANT: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: of Use
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaieky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-590-563-4

Query Match 8.9%; Score 117.5; DB 4; Length 492;
Best Local Similarity 31.4%; Pred. No. 3.4e-05;
Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 VVDRDDDFHGNQIQWLWPKSNNDPNQLWTKRDXITRSNGS-CLTTYGYTAGVYVMIFD 80
Db 379 IDVPNGNTADGTQVQLYDCHSGS--NQQWYTSSTSGEFRIFGNKCLDAGSGSNGAVVQIYS 436

QY 81 CNTAVREATIWOIWNKGTIINPRSNLVLAASSGIKGTTLTVQ 122
Db 437 CWGANOK--WELRADGTIVGVQSGLCGLDAGGGTGNGTRLQ 476

RESULT 14
US-08-590-563-7
; Sequence 7, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
```

APPLICANT: Vehmaanper, Jari
 APPLICANT: Pajerstr m, Richard
 APPLICANT: Lantto, Raija
 APPLICANT: Pahoelimo, Marja
 APPLICANT: Suominen, Pirkko
 APPLICANT: Lahtinen, Tarja
 TITLE OF INVENTION: Production and Secretion of Proteins of
 NUMBER OF SEQUENCES: 39
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 STREET: 1100 New York Ave., N.W. Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/590,563
 FILING DATE: 26-JAN-1996
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/468,812
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/332,412
 FILING DATE: 31-OCT-1994
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/282,001
 FILING DATE: 29-JUL-1994
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Bugalsky, Lawrence B.
 REGISTRATION NUMBER: 35,086
 REFERENCE/DOCKET NUMBER: 1050.0340003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 492 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: AM50
 US-08-590-563-7

Query Match 8.9%; Score 117.5; DB 4; Length 492;
 Best Local Similarity 31.4%; Pred. No. 3.4e-05;
 Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 VDVRDDDFHGNQIOLWPSKSNNDPNOLWTKRDXITIRNGS-CLTTYGYTAGVYVWIFD 80
 Db 379 IDVPNGNTADGTQVLYDCHSGS--NQOYTSSEGFIFGNKCLDAGGSSNGAVQIYS 436
 QY 81 CNTAVREATIWIWXNGTIINPRSNLVLAASSGKGTTLTVQ 122
 Db 437 CWGGANQK--WELRADGTIVGVSGICLDVAGGTGNGTRLQ 476

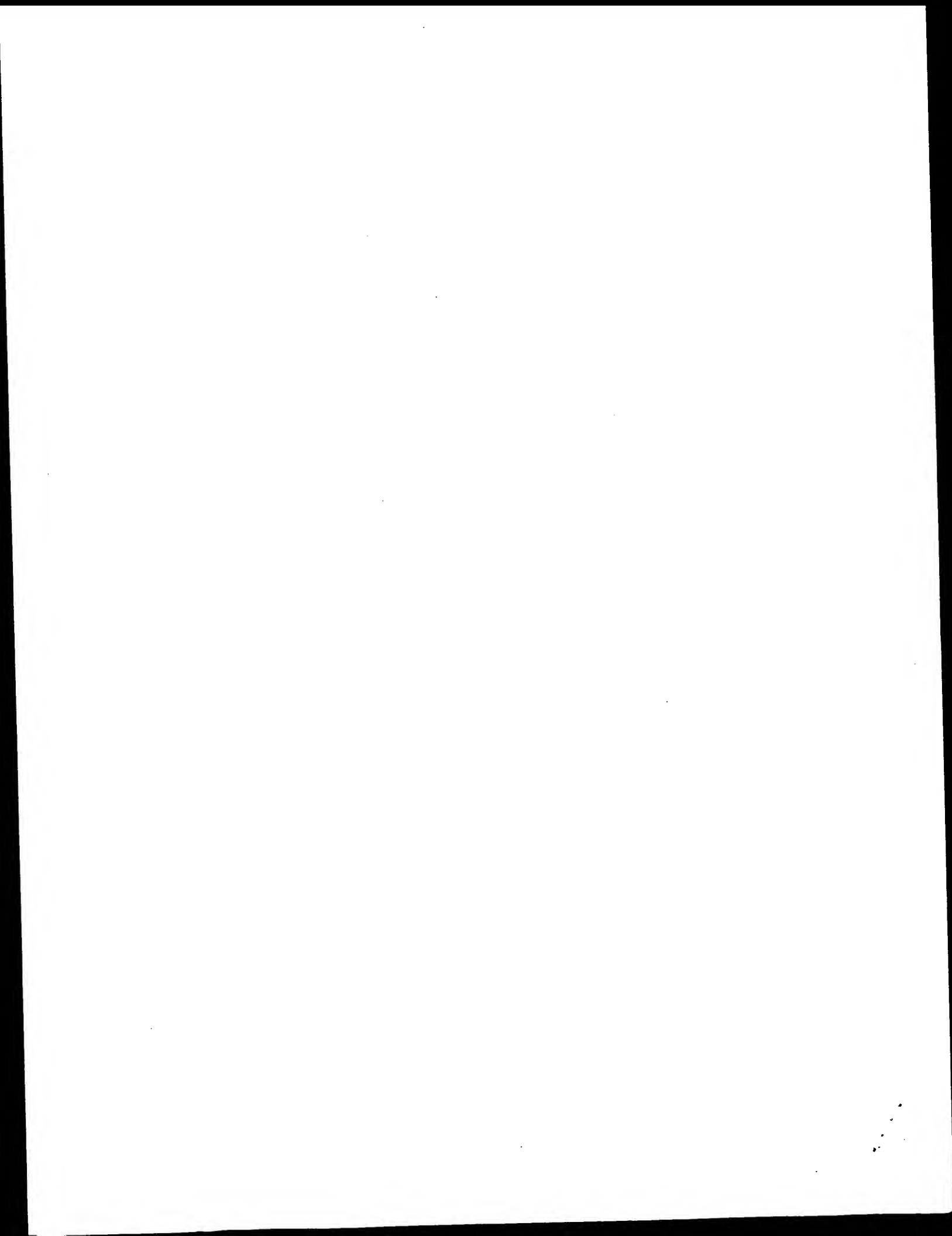
RESULT 15
 US-08-468-812-8
 ; Sequence 8, Application US/08468812
 ; Patent No. 5935836
 ; GENERAL INFORMATION:
 ; APPLICANT: Vehmaanper, Jari

APPLICANT: M ntyl, Arja
 APPLICANT: Pajerstr m, Richard
 APPLICANT: Lantto, Raija
 APPLICANT: Pahoelimo, Marja
 APPLICANT: Suominen, Pirkko
 APPLICANT: Lahtinen, Tarja
 APPLICANT: Kristo, Paula
 TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
 NUMBER OF SEQUENCES: 25
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
 STREET: 1100 New York Ave., N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/468,812
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/332,412
 FILING DATE: 31-OCT-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/282,001
 FILING DATE: 29-JUL-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Bugalsky, Larry B.
 REGISTRATION NUMBER: 35,086
 REFERENCE/DOCKET NUMBER: 1050.0340002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 491 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: M64551
 US-08-468-812-8

Query Match 8.7%; Score 115.5; DB 2; Length 491;
 Best Local Similarity 27.9%; Pred. No. 5.8e-05;
 Matches 39; Conservative 19; Mismatches 63; Indels 19; Gaps 6;

QY 7 ASPP-----TVRIYGRXGMXVDVDDDFHGNQIOLWPSKSNNDPNQIWTIKRD 55
 Db 354 SSEPPXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQWDCHSGT--NOOAAATDA 410
 QY 56 XTIRNSG-CLTTYGYTAGVYVWIFDNTAVREATIWIWXNGTIINPRSNLVLA--SS 112
 Db 411 GELRVYGDKCLDAAGTSNGSKVQIYSCWGGDNQK--WRLNSDGSVVGQSLCLDVGNG 468
 QY 113 GIKGTTLTVQTLDTLQGV 132
 Db 469 TANGTLIQLYTCNSGNSQRW 488

Search completed: March 22, 2003, 09:59:37
 Job time : 10.1481 secs



GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 18.7635 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-40

Perfect score: 2626

Sequence: 1 YERLRLRVHTQTGXEYFRP.....RRIIYPATGKPNQMWLPVX 534

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1267.5	48.3	263	10	US-09-347-064-10
2	1267.5	48.3	267	10	US-09-347-064-4
3	1155	44.0	252	10	US-09-347-064-8
4	1151	43.8	252	10	US-09-347-064-2
5	301	11.5	247	9	US-09-792-793A-39
6	278.5	10.5	247	9	US-09-792-793A-34
7	275	10.5	332	10	US-09-765-527-251
8	271.5	10.3	251	10	US-09-765-527-247
9	268.5	10.2	293	10	US-09-765-527-259
10	268.5	10.2	309	10	US-09-765-527-253
11	233.5	8.9	250	9	US-09-792-793A-36
12	165	6.3	263	10	US-09-878-274A-4
13	165	6.3	314	10	US-09-978-274A-2
14	163.5	6.2	275	9	US-09-792-793A-35
15	162	6.2	145	12	US-10-074-527-5
16	162	6.2	254	9	US-09-792-793A-85
17	162	6.2	327	9	US-09-792-793A-79
18	162	6.2	330	9	US-09-792-793A-82
19	162	6.2	332	9	US-09-792-793A-73

20	162	6.2	332	9	US-09-792-793A-76	Sequence 76, Appl
21	119.5	4.6	135	9	US-09-973-457-5	Sequence 5, Appl
22	119.5	4.6	135	12	US-10-074-527-6	Sequence 6, Appl
23	119	4.5	110	10	US-09-978-274A-8	Sequence 8, Appl
24	118	4.5	323	9	US-09-792-793A-80	Sequence 80, Appl
25	118	4.5	325	9	US-09-792-793A-81	Sequence 81, Appl
26	117.5	4.5	480	10	US-09-770-621-4	Sequence 5, Appl
27	117.5	4.5	492	10	US-09-770-621-4	Sequence 4, Appl
28	117.5	4.5	492	10	US-09-770-621-7	Sequence 7, Appl
29	115.5	4.4	491	10	US-09-770-621-8	Sequence 8, Appl
30	113	4.3	325	9	US-09-792-793A-74	Sequence 74, Appl
31	113	4.3	327	9	US-09-792-793A-75	Sequence 75, Appl
32	112	4.3	247	9	US-09-792-793A-83	Sequence 83, Appl
33	112	4.3	249	9	US-09-792-793A-84	Sequence 84, Appl
34	112	4.3	320	9	US-09-792-793A-77	Sequence 77, Appl
35	112	4.3	322	9	US-09-792-793A-78	Sequence 78, Appl
36	112	4.3	325	9	US-09-792-793A-71	Sequence 71, Appl
37	112	4.3	326	10	US-09-334-477-37	Sequence 37, Appl
38	112	4.3	327	9	US-09-792-793A-72	Sequence 72, Appl
39	112	4.3	690	10	US-09-334-477-47	Sequence 47, Appl
40	112	4.3	708	10	US-09-334-477-33	Sequence 33, Appl
41	111.5	4.2	293	9	US-09-792-793A-37	Sequence 37, Appl
42	111.5	4.2	315	10	US-09-334-477-2	Sequence 2, Appl
43	111.5	4.2	323	10	US-09-334-477-21	Sequence 21, Appl
44	106.5	4.1	318	10	US-09-334-477-6	Sequence 6, Appl
45	106.5	4.1	326	10	US-09-334-477-25	Sequence 25, Appl

ALIGNMENTS

RESULT 1

US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1

; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger

; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 10

; LENGTH: 263

; TYPE: PRT

; ORGANISM: Viscum album

US-09-347-064-10

Query Match 48.3% Score 1267.5; DB 10; Length 263;
Best Local Similarity 91.6%; Pred. No. 1.2e-123;
Matches 24; Conservative 1; Mismatches 20; Indels 1; Gaps 1;

Qy 271 DDVTCASAEPTVRIVGRXGMXVDVDRDDFDGNGNQIQLWPSKSNNDPNQLWTKRDXTIRS 330

Db 1 DDVTCASAEPTVRIVGRNGCMVDVDRDDFDGNGNQIQLWPSKSNNDPNQLWTKRDXTIRS 60

Qy 331 NGSCLTITGYTAGVYVMI FDCNTAVREATIWIQXNGTIIINPRNLVLAASSGIKGTILT 390

Db 61 NGSCLTITGYTAGVYVMI FDCNTAVREATIWIQXNGTIIINPRNLVLAASSGIKGTILT 120

Qy 391 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLCMESNXGSMVETCSXQXNXXALYGD 450

Db 121 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLCMESNGSGSMVETCSXQXNXXALYGD 179

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QY 451 GSIRPKQNDQCLTXGRDSVSTVINIVSCSXSSXQXQWVFTNEXAILNLKXXXXXDVAAQ 510
DB 180 GSIRPKQNDQCLTXGRDSVSTVINIVSCSAGSGQXQWVFTNEGAILNLKNGLAMDVAAQ 239
QY 511 NPKLRRIIYPATGKPNQWLPV 533
DB 240 NPKLRRIIYPATGKPNQWLPV 262

RESULT 2
US-09-347-064-4
; Sequence 4, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 267
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-4

Query Match 48.3%; Score 1267.5; DB 10; Length 267;
Best Local Similarity 91.6%; Pred. No. 1.2e-123;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;

QY 271 DNVTCASPTVRIIVGRXGMXVDVDDDDHGDGQIQLWPSKSNNDPNOLWTKRDXTRS 330
DB 1 DNVTCASPTVRIIVGRXGMXVDVDDDDHGDGQIQLWPSKSNNDPNOLWTKRDXTRS 60
QY 331 NGSCLTYYGTAGVYVWIFDCNTAVREATIWIQXNGTIIINPSNLVLAASSGKGTTLT 390
DB 61 NGSCLTYYGTAGVYVWIFDCNTAVREATIWIQXNGTIIINPSNLVLAASSGKGTTLT 120
QY 391 VQTLDYTLQGGWLAGNDTAPREVITYGFRDLCMESXNGSVVWVETCSQXNQXWALYGD 450
DB 121 VQTLDYTLQGGWLAGNDTAPREVITYGFRDLCMESXNGSVVWVETCSQXNQ-RWALYGD 179
QY 451 GSIRPKQNDQCLTXGRDSVSTVINIVSCSXSSXQXQWVFTNEXAILNLKXXXXXDVAAQ 510
DB 180 GSIRPKQNDQCLTXGRDSVSTVINIVSCSAGSGQXQWVFTNEGAILNLKNGLAMDVAAQ 239
QY 511 NPKLRRIIYPATGKPNQWLPV 533
DB 240 NPKLRRIIYPATGKPNQWLPV 262

RESULT 3
US-09-347-064-8
; Sequence 8, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
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; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 8
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-8

Query Match 44.0%; Score 1155; DB 10; Length 252;
Best Local Similarity 91.3%; Pred. No. 5.5e-112;
Matches 232; Conservative 1; Mismatches 19; Indels 2; Gaps 1;

QY 1 YERLRLRVTHQTGXEYFRFTLLRDYVSSGSFSNEIPLLRQSTIPVSDAQRFLVVELTN 60
DB 1 YERLRLRVTHQTGXEYFRFTLLRDYVSSGSFSNEIPLLRQSTIPVSDAQRFLVVELTN 60
QY 61 QGXDSTAAIDVTNXYVYVYQAGDSYFLRDAPRGAETHLFTGTRDRSSLPFXGSYXDL 120
DB 61 QGDSITAAIDVTNLYVYVYQAGDSYFLRDAPRGAETHLFTGTR--RSSLPFXGSYXDL 118
QY 121 ERYAGHRDQIPLGIXQLIQSVXALRXPFGSSTRXQARSILILIQMISEAARFNPLWRXQ 180
DB 119 ERYAGHRDQIPLGIXQLIQSVXALRXPFGSSTRXQARSILILIQMISEAARFNPLWRARQ 178
QY 181 XINGSGFLPDYXMLETSWQGSTQVQHSYDGVFNNPXLAIXXGNFVTLXNVXVIA 240
DB 179 YINGSGFLPDYXMLETSWQGSTQVQHSYDGVFNNPXLAIXXGNFVTLXNVXVIA 238
QY 241 SLAIMLFVCGERPS 254
DB 239 SLAIMLFVCGERPS 252

RESULT 4
US-09-347-064-2
; Sequence 2, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-2

Query Match 43.8%; Score 1151; DB 10; Length 252;
Best Local Similarity 91.3%; Pred. No. 1.4e-111;
Matches 231; Conservative 1; Mismatches 19; Indels 2; Gaps 1;

QY 1 YERLRLRVTHQTGXEYFRFTLLRDYVSSGSFSNEIPLLRQSTIPVSDAQRFLVVELTN 60
DB 2 YERLRLRVTHQTGXEYFRFTLLRDYVSSGSFSNEIPLLRQSTIPVSDAQRFLVVELTN 61
QY 61 QGXDSTAAIDVTNXYVYVYQAGDSYFLRDAPRGAETHLFTGTRDRSSLPFXGSYXDL 120
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Db 62 QGGDSITAAIDVTNLYVAVYAGQDSYFLRDPARGAETHLFTGTT--RSSLPFNGSPDL 119
QY 121 ERYAGHRDQPLGIXQLIQSVXALRXPGGSTRXQARSILILIQMISEAARENPIILWRXQ 180
Db 120 ERYAGHRDQPLGIXQLIQSVTALRFPGGSTRXQARSILILIQMISEAARENPIILWRARQ 179
QY 181 XINSXGFLDPXMYLETSWQGSTQVHSTDGVFNNPXRRLAIXXGNFVTLXNVXVIA 240
Db 180 YINSGASFLDPVYMYLETSWQGSTQVHSTDGVFNNPXRRLAIXXGNFVTLXNVXVIA 239
QY 241 SLAIMLFCVGERP 253
Db 240 SLAIMLFCVGERP 252

RESULT 5
US-09-792-793A-39
; Sequence 39, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggin, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 39
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Trichosantheus kirilowii
US-09-792-793A-39

Query Match 11.5%; Score 301; DB 9; Length 247;
Best Local Similarity 34.6%; Pred. No. 2.4e-23;
Matches 83; Conservative 50; Mismatches 93; Indels 14; Gaps 94
QY 13 TGXEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRVFLVLTNQGKXDAIDV 72
Db 10 TSSSYGVFISNLKALPNERKLYDIPLR--SSLPGS--QRYALHILTYADETISVAIDV 66
QY 73 TNXYVAVYAGQDSYFLRDA--PRGAETHLFTGTTDRSSLPFGXSYXDLERYAGH--RDQI 130
Db 67 TNVYMGYRAGDTSYFFNEASATEAAYVFKDNR--KVTLPYSGNYERLQTAACKIRENI 125
QY 131 PLGIXQLIQSVXALRXPGGSTRXQARSILILIQMISEAARENPIILWRXQKXGSLP 190
Db 126 PLGLPALDSAITTLFYNNANS--AASALMVLIQSTSEAAARYKFTEQQTGKRVDK--TFLP 181
QY 191 DXMYLETSWQGSTQVQ--HSTDGVFNPNPXRRLAIXXGNFVTLXNVX--VIASLAIML 246
Db 182 SLAIIISLENSWALSQIQIASTNNGQFESPVVLINAQNRQVTTINVDAGVVTNSIALLL 241

RESULT 6
US-09-792-793A-34
; Sequence 34, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggin, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 34
; LENGTH: 247

; TYPE: PRT
; ORGANISM: Bryonia dioica
US-09-792-793A-34
Query Match 10.6%; Score 278.5; DB 9; Length 247;
Best Local Similarity 31.2%; Pred. No. 5.3e-21;
Matches 77; Conservative 52; Mismatches 101; Indels 17; Gaps 8;
QY 7 RVHTQTTXBYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRVFLVLTNQGKXDX 66
Db 5 RLSGATT--TSYGVFIKRLREALPYRKVYNIPLLRSS--ISGSGRYVTLHLTNVADETI 60
QY 67 TAAIDVTNXYVAVYAGQDSYFLRDPARGAETHLFTGTTDRSSLPFGXSYXDLERYAGH 126
Db 61 SVAVDVTNXYVAVYAGQDSYFLRDPARGAETHLFTGTTDRSSLPFGXSYXDLERYAGH 120
QY 127 -RDOIPLGIXQLIQSVXALRXPGGSTRXQARSILILIQMISEAARENPIILWRXQXINS 185
Db 121 IRENIPGLPALDSAITTLFYNNANS--AASALMVLIQSTSEAAARYKFTEQQTGKRVDK- 177
QY 186 XSFPLDXMYLETSWQGSTQVQ--HSTDGVFNPNPXRRLAIXXGN--FVTLXNVXV 239
Db 178 -TFLPSLATISLENNWALSQIQIASTNNGQFESP--VVLIDGNQNRQVTSITNASARVVT 234
QY 240 ASLAIML 246
Db 235 SNIALLL 241

RESULT 7
US-09-765-527-251
; Sequence 251, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 251:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 251:
US-09-765-527-251

7:

7:

Qy	8	VTHQTGXEYFRFITLLRDY---VSSGGSFSENEIPLLRRQSTIPVSDAQRPVLVELTNQXD
Db	27	VSFSFKGATITYVNFLELRLVKPKPEGNHSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ

Qy	8	VTHQTGXEYFRFITLLRDY---VSSGGSFSENEIPLLRRQSTIPVSDAQRPVLVELTNQXD
Db	27	VSFSFKGATITYTVNFINELRVKLKPEGNSHGIGILLRKKC--DDPGKCFVLVALSNDNGQ

QY 65 SXTAAIDVTNXYVAYQAGDOSYFLRDAPRGAETHLFTGTRDRSSLPFXGSYXDLERYA 124
Db 85 LAETAIDVTSYVVGQYQVRNRSYFFKADAPDAAYEGLEFNKTR--LHFGGTYSLEGEK 142
QY 125 GHRQDIPGLIXQL---IQSVXALRPGGSTRXQARSILILIQMISEAARF---NPILWR 177
Db 143 AYRETTDLGIEPLRIGIKKLDENADINYPKTEIASSLLVLIQVSEAAARFTFIENQIRNN 202
QY 178 XROKINGXSFLPDXYMLETSGQOSTQVQHS--TDCVFNPNPRLAIXXGNFVTLXNVR 236
Db 203 FQORIR-----PANNTISLENKWKGLSFQIRTSANGMFSEAVELERANGKYYVTAVD 256
QY 237 XVIASLAIMLFV 248
Db 257 QVKPKIALLKFEV 268

RESULT 10
US-09-765-527-253
; Sequence 253, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; ; Fusion Proteins and BFI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 253:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 253:
US-09-765-527-253

Query Match 10.2%; Score 268.5; DB 10; Length 309;
Best Local Similarity 32.9%; Pred. No. 7.9e-20;
Matches 83; Conservative 35; Mismatches 113; Indels 21; Gaps 7
QY 8 VTHQTTGXEFYRFTLLRDY---VSSGSFNEIPLLRQSTIPVSDAQRFLVLTNQGXD 64
Db 27 VSFSTKGATVITYVNFLELRVCLKPENGSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84
QY 65 SXTAAIDVTNXYVAYQAGDOSYFLRDAPRGAETHLFTGTRDRSSLPFXGSYXDLERYA 124
Db 85 LAETAIDVTSYVVGQYQVRNRSYFFKADAPDAAYEGLEFNKTR--LHFGGTYSLEGEK 142

QY 125 GHRQDIPGLIXQL---IQSVXALRPGGSTRXQARSILILIQMISEAARF---NPILWR 177
Db 143 AYRETTDLGIEPLRIGIKKLDENADINYPKTEIASSLLVLIQVSEAAARFTFIENQIRNN 202
QY 178 XROKINGXSFLPDXYMLETSGQOSTQVQHS--TDCVFNPNPRLAIXXGNFVTLXNVR 236
Db 203 FQORIR-----PANNTISLENKWKGLSFQIRTSANGMFSEAVELERANGKYYVTAVD 256
QY 237 XVIASLAIMLFV 248
Db 257 QVKPKIALLKFEV 268

RESULT 11
US-09-792-793A-36
; Sequence 36, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggin, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; ; OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 36
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Momordica charantia
US-09-792-793A-36

Query Match 8.9%; Score 233.5; DB 9; Length 250;
Best Local Similarity 30.9%; Pred. No. 2.5e-16;
Matches 68; Conservative 30; Mismatches 89; Indels 33; Gaps 6
QY 6 LRVTHTTGXYEYRFTLLRDYVSSGSFNEIPLLRQSTIPVSDAQRFLVLTNQGXD 65
Db 10 LDNNPTT---YLSFTINRTKVADKTEQCTI-----QKSKTFTQYSDILVSSQTK 61
QY 66 XTAIDVTNXYVAY---QAGDOSYFLRDAPRGAETHLFTGTT--RDRSSLPFXGSYXDL 120
Db 62 ITLAIDMADLYVLGYSDIANNKGRAFFKDVTEAVANNFPFGATGTNRKLTFTGSYGD 121
QY 121 ERVAGHEDQIPGLIXQLIQSVXALRPGGSTRXQARSILILIQMISEAARENPIWRXQ 180
Db 122 EKGGLRDNPGLGIFRLNENSVINYGKAGDVYKQAKFFLLAIQMVSEAAARPKYI----- 175
QY 181 XINSXSFLP-----DXYMLELETSGQOSTQVQHS 211
Db 176 -----SDKIPSEKVEEYTVDEYMTALENNWAKLSTAVYNS 210

RESULT 12
US-09-978-274A-4
; Sequence 4, Application US/0978274A
; Patent No. US20020116737A1
; GENERAL INFORMATION:
; APPLICANT: Thomas, Christopher
; APPLICANT: McPherson, Michael
; APPLICANT: Atkinson, Howard
; APPLICANT: Neelam, Anil
; TITLE OF INVENTION: PLANT CELL DEATH SYSTEM
; FILE REFERENCE: 9341-028
; CURRENT APPLICATION NUMBER: US/09/978,274A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 0025225.4
; PRIOR FILING DATE: 2000-10-14
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 263

Search completed: March 22, 2003, 10:37:42
Job time : 21.7635 secs

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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 8.99525 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-41

Perfect score: 1223

Sequence: 1 YERLRLRVHTQTGXEFYFR.....XVIASLAIMLFVCGERPSSS 256

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1:	/cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pap.*
2:	/cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pap.*
3:	/cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pap.*
4:	/cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pap.*
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7:	/cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pap.*
8:	/cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pap.*
9:	/cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pap.*
10:	/cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pap.*
11:	/cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pap.*
12:	/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pap.*
13:	/cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pap.*
14:	/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pap.*
15:	/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1155	94.4	252	10	US-09-347-064-8
2	1151	94.1	252	10	US-09-347-064-2
3	301	24.6	247	9	US-09-792-793A-39
4	278.5	22.8	247	9	US-09-792-793A-34
5	271.5	22.2	251	10	US-09-765-527-247
6	268.5	22.0	293	10	US-09-765-527-259
7	268.5	22.0	309	10	US-09-765-527-253
8	268.5	22.0	332	10	US-09-765-527-251
9	233.5	19.1	250	9	US-09-792-793A-36
10	165	13.5	263	10	US-09-978-274A-4
11	165	13.5	314	10	US-09-978-274A-2
12	162	13.2	254	9	US-09-792-793A-85
13	162	13.2	275	9	US-09-792-793A-35
14	162	13.2	327	9	US-09-792-793A-79
15	162	13.2	330	9	US-09-792-793A-82
16	162	13.2	332	9	US-09-792-793A-73
17	162	13.2	332	9	US-09-792-793A-76
18	119	9.7	110	10	US-09-978-274A-8
19	118	9.6	323	9	US-09-792-793A-80

20	118	9.6	325	9	US-09-792-793A-81
21	113	9.2	325	9	US-09-792-793A-74
22	113	9.2	327	9	US-09-792-793A-75
23	112	9.2	247	9	US-09-792-793A-83
24	112	9.2	249	9	US-09-792-793A-84
25	112	9.2	320	9	US-09-792-793A-77
26	112	9.2	322	9	US-09-792-793A-78
27	112	9.2	325	9	US-09-792-793A-71
28	112	9.2	326	10	US-09-334-477-37
29	112	9.2	327	9	US-09-792-793A-72
30	112	9.2	690	10	US-09-334-477-47
31	112	9.2	708	10	US-09-334-477-33
32	111.5	9.1	293	9	US-09-792-793A-37
33	111.5	9.1	315	10	US-09-334-477-2
34	111.5	9.1	323	10	US-09-334-477-21
35	106.5	8.7	318	10	US-09-334-477-6
36	106.5	8.7	326	10	US-09-334-477-25
37	106	8.7	319	9	US-09-792-793A-38
38	106	8.7	319	9	US-09-870-759-28
39	105.5	8.6	329	10	US-09-334-477-39
40	105.5	8.6	711	10	US-09-334-477-35
41	105	8.6	694	10	US-09-334-477-49
42	71.5	5.8	582	10	US-09-815-242-14006
43	69	5.6	426	9	US-10-101-464A-124
44	69	5.6	890	9	US-10-101-464A-958
45	69	5.6	1270	9	US-10-101-464A-979

ALIGNMENTS

RESULT 1

US-09-347-064-8
; Sequence 8, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-inactivating Proteins of the mistletoe Viscum
; FILE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-8

Query Match

Best Local Similarity 94.4%; Score 1155; DB 10; Length 252;
Matches 232; Conservative 1; Mismatches 19; Indels 2; Gaps 1;

QY	1	YERLRLRVHTQTGXEFYFRITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTN	60
DB	1	YERLRLRVHTQTGXEFYFRITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTN	60
QY	61	QGXDSHTAIDVTNXXVYVAYQAGDSYFLRDA PRGAEHLFTGTTDRSSLPFGSYXDL	120
DB	61	QGXDSHTAIDVTNXXVYVAYQAGDSYFLRDA PRGAEHLFTGTTDRSSLPFGSYXDL	120
QY	121	ERYAGHRDOIPLGIXOLIOSVXALRXPGGSTRQXQARSILILQIMISEAARFNILWRXQ	180
DB	119	ERYAGHRDOIPLGIXOLIOSVXALRXPGGSTRQXQARSILILQIMISEAARFNILWRXQ	178

; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 253:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 253:
US-09-765-527-253

Query Match 22.0%; Score 268.5; DB 10; Length 309;
Best Local Similarity 32.9%; Pred. No. 2.8e-23;
Matches 83; Conservative 35; Mismatches 113; Indels 21; Gaps 7;

Qy 8 VTHQTGXEFYRFTLLRDY---VSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGX 64
Db 27 VSFSTKGATYTYVNFNLNRLVKLPKPGNSHGIPLLRKC--DDPKCFVLVALSNDNG 84

Qy 65 SXTAAIDVTNXYVAYQAGDSYFLRDAPRGAETHLFTGTTDRSSLPLFPXGSXDLYA 124
Db 85 LAEIAIDVTSVYVGVQVNRYSYFFKDAADAEGLFKNTIKTR--LHFGGTPSLEGEK 142

Qy 125 GHRDQIPLGIXQL---IQSVXALRXPGGSTRXQARSILILIQMISEAARF---NPILWR 177
Db 143 AYRETTDLGIEPLRIGIKKLDENADNYPKTEIASSLLVVIQMVSEAAARFTFIENQIRNN 202

Qy 178 XROXINGSGFLPDXYMLETSWGQOSTQVQHS--TDGVFNPNXRLAIXXGNFVTLXNVR 236
Db 203 FQQRIR-----PANNTISLENKWKLSFQIRTSANGMPSEAVELERANGKYYVTVAVD 256

Qy 237 XVIASLAIMLFV 248
Db 257 QVKPKIALLKVF 268

RESULT 8
US-09-765-527-251
; Sequence 251, Application US/09765527
; Patent No. US2002006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive

; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 251:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 251:
US-09-765-527-251

Query Match 22.0%; Score 268.5; DB 10; Length 332;
Best Local Similarity 32.9%; Pred. No. 3.1e-23;
Matches 83; Conservative 35; Mismatches 113; Indels 21; Gaps 7;

Qy 8 VTHQTGXEFYRFTLLRDY---VSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGX 64
Db 27 VSFSTKGATYTYVNFNLNRLVKLPKPGNSHGIPLLRKC--DDPKCFVLVALSNDNG 84

Qy 65 SXTAAIDVTNXYVAYQAGDSYFLRDAPRGAETHLFTGTTDRSSLPLFPXGSXDLYA 124
Db 85 LAEIAIDVTSVYVGVQVNRYSYFFKDAADAEGLFKNTIKTR--LHFGGTPSLEGEK 142

Qy 125 GHRDQIPLGIXQL---IQSVXALRXPGGSTRXQARSILILIQMISEAARF---NPILWR 177
Db 143 AYRETTDLGIEPLRIGIKKLDENADNYPKTEIASSLLVVIQMVSEAAARFTFIENQIRNN 202

Qy 178 XROXINGSGFLPDXYMLETSWGQOSTQVQHS--TDGVFNPNXRLAIXXGNFVTLXNVR 236
Db 203 FQQRIR-----PANNTISLENKWKLSFQIRTSANGMPSEAVELERANGKYYVTVAVD 256

Qy 237 XVIASLAIMLFV 248
Db 257 QVKPKIALLKVF 268

RESULT 9
US-09-792-793A-36
; Sequence 36, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 36
; LENGTH: 250

Query Match 19.1%; Score 233.5; DB 9; Length 250;
Best Local Similarity 30.9%; Pred. No. 2.5e-19;
Matches 68; Conservative 30; Mismatches 89; Indels 33; Gaps 6;

QY 6 LRVHTQGTGXEYFRITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGXDS 65
Db 10 LDNNPTT--YLSFITNIRKVDKTEQCTI-----QKISKTQRYSVIDLIVSSTQK 61
QY 66 XTRAIDVTNNYVAY-----QAGDOSYFLRDAPRGAETHLFTGTT-RDRSSLPFGXSYXDL 120
Db 62 ITAIDWADLYLVGYSDIANNKGRAFFKDVTEAVANNFFPGATGNRIKLFTFTGSYGD 121
QY 121 ERVAGHRDQIPLGIXQLIQSVXALRXPGGSTRXQARSILILIQMISEAARFNPLWRXRQ 180
Db 122 EKNGLRKDNPLGIFRLENSIVNIYKAGDVKKQAKFFLLAIQWVSEARFKYI----- 175
QY 181 XINSKXSLP-----DXYMLELTSWGQOSTQVOHS 211
Db 176 ----SDKIPSEKYEYEVTVDEYMTALENNWAKLSTAVVNS 210

RESULT 10
US-09-798-274A-4
; Sequence 4, Application US/09978274A
; Patent No. US20020116737A1
; GENERAL INFORMATION:
; APPLICANT: Thomas, Christopher
; APPLICANT: McPherson, Michael
; APPLICANT: Atkinson, Howard
; APPLICANT: Neelam, Anil
; TITLE OF INVENTION: PLANT CELL DEATH SYSTEM
; FILE REFERENCE: 9341-028
; CURRENT APPLICATION NUMBER: US/09/978, 274A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 0025225.4
; PRIOR FILING DATE: 2000-10-14
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Phytolacca americana
US-09-798-274A-4

Query Match 13.5%; Score 165; DB 10; Length 263;
Best Local Similarity 23.0%; Pred. No. 2.5e-11;
Matches 60; Conservative 45; Mismatches 112; Indels 44; Gaps 8;

QY 16 EYFRFITLLRDYVSSGFSNEIPLLRQSTIPV-----SDAQRFLVLTNQGXDSXTAID 71
Db 16 KYATFMESLRNQAKD-----PKLKCYGIPMLPDTNSTPKYLLVKGANLKITITMLR 68
QY 72 VTNXYVAYQAGDSYFLRDAPRG--AETHLF-----TGTTRDRSSLP 112
Db 69 RNNLYVMGYS-----DPFNGNKCRIHFNIDITSTERTDVENTLCSSSSRVAMSIN 119
QY 113 FXGSYXDLERYA--GHRDQIPLGIXQLIQSVXALRXPGG--STRXQARSILILIQMISEA 169
Db 120 YNSLYPTMEKKAENVSRNQVLGQIQLSSDIGKISGVDSFPVKTEAFFLLVAIQWVSEA 179
QY 170 RNPILWRXQXINSXGSLFDPXYMLELTSWGQOSTQVOHSDTGVFNPNRLAIXXGNF 229
Db 180 RFKYI--ENQVKNFNRAFYDPDPKVINLEEKWGKISAIHNNAKNAGALPKPLLELVDK 237
QY 230 VTLXNVXVIAASLAIMLFVCG 250
Db 238 WIVLRVDEINRDVALLKYVNG 258

RESULT 11
US-09-978-274A-2
; Sequence 2, Application US/09978274A
; Patent No. US20020116737A1
; GENERAL INFORMATION:
; APPLICANT: Thomas, Christopher
; APPLICANT: McPherson, Michael
; APPLICANT: Atkinson, Howard
; APPLICANT: Neelam, Anil
; TITLE OF INVENTION: PLANT CELL DEATH SYSTEM
; FILE REFERENCE: 9341-028
; CURRENT APPLICATION NUMBER: US/09/978, 274A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 0025225.4
; PRIOR FILING DATE: 2000-10-14
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Phytolacca americana
US-09-978-274A-2

Query Match 13.5%; Score 165; DB 10; Length 314;
Best Local Similarity 23.0%; Pred. No. 3.2e-11;
Matches 60; Conservative 45; Mismatches 112; Indels 44; Gaps 8;

QY 16 EYFRFITLLRDYVSSGFSNEIPLLRQSTIPV-----SDAQRFLVLTNQGXDSXTAID 71
Db 39 KYATFMESLRNQAKD-----PKLKCYGIPMLPDTNSTPKYLLVKGANLKITITMLR 91
QY 72 VTNXYVAYQAGDSYFLRDAPRG--AETHLF-----TGTTRDRSSLP 112
Db 92 RNNLYVMGYS-----DPFNGNKCRIHFNIDITSTERTDVENTLCSSSSRVAMSIN 142
QY 113 FXGSYXDLERYA--GHRDQIPLGIXQLIQSVXALRXPGG--STRXQARSILILIQMISEA 169
Db 143 YNSLYPTMEKKAENVSRNQVLGQIQLSSDIGKISGVDSFPVKTEAFFLLVAIQWVSEA 202
QY 170 RNPILWRXQXINSXGSLFDPXYMLELTSWGQOSTQVOHSDTGVFNPNRLAIXXGNF 229
Db 203 RFKYI--ENQVKNFNRAFYDPDPKVINLEEKWGKISAIHNNAKNAGALPKPLLELVDK 260
QY 230 VTLXNVXVIAASLAIMLFVCG 250
Db 261 WIVLRVDEINRDVALLKYVNG 281

RESULT 12
US-09-792-793A-85
; Sequence 85, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggin, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE ANI
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792, 793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 85
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Methionine-Saporin fusion pr
US-09-792-793A-85

Query Match 13.2%; Score 162; DB 9; Length 254;
Best Local Similarity 27.8%; Pred. No. 5.4e-11;
Matches 66; Conservative 43; Mismatches 90; Indels 38; Gaps 12;

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; SEQ ID NO 79
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
; OTHER INFORMATION: 1-Beta-AM-SAPORIN
US-09-792-793A-79

Query Match      13.2%; Score 162; DB 9; Length 327;
Best Local Similarity 27.8%; Pred. No. 7.5e-11;
Matches 66; Conservative 43; Mismatches 90; Indels 38; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 5 ITLDLVNPTAG-QYSSFVDKIRNNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 56

QY 59 -TNOGXDSXTAAIDVTNXYVYVAYQAGD-----QSYFLRDAPRGAE-THLP-TGTTDRSS 110
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 57 QSSRGTVSLGLKRD--NLYVVAYLAMDNNTNVRAYYFRSEITSAESTALFPEATTANOKA 114

QY 111 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIQSVXALRXPGGSTRXQARSILILQIOM 164
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 115 LEYTEDYQSIEKNAQITQDQSRKELGIDLLSTMEAVNKKARVVKDEARFLIAIQM 174

QY 165 ISEAAARFNPILWRXRXQI---NSGXSFDPDXMYMLETSGWQQOSTQVQ-HSTDGVFN 217
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 175 TAEAAARF-----RYIQLNLIKPNFKNSFNKVIQFEVNNKKISTAIYGDAGKNGVFN 226

RESULT 13
US-09-792-793A-35
; Sequence 35, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 275
; TYPE: PRT
; ORGANISM: Saponaria officinalis
US-09-792-793A-35

Query Match      13.2%; Score 162; DB 9; Length 275;
Best Local Similarity 27.8%; Pred. No. 6e-11;
Matches 66; Conservative 43; Mismatches 90; Indels 38; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 4 ITLDLVNPTAG-QYSSFVDKIRNNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 55

QY 59 -TNOGXDSXTAAIDVTNXYVYVAYQAGD-----QSYFLRDAPRGAE-THLP-TGTTDRSS 110
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 56 QSSRGTVSLGLKRD--NLYVVAYLAMDNNTNVRAYYFRSEITSAESTALFPEATTANOKA 113

QY 111 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIQSVXALRXPGGSTRXQARSILILQIOM 164
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 114 LEYTEDYQSIEKNAQITQDQSRKELGIDLLSTMEAVNKKARVVKDEARFLIAIQM 173

QY 165 ISEAAARFNPILWRXRXQI---NSGXSFDPDXMYMLETSGWQQOSTQVQ-HSTDGVFN 217
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 174 TAEAAARF-----RYIQLNLIKPNFKNSFNKVIQFEVNNKKISTAIYGDAGKNGVFN 225
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RESULT 14
US-09-792-793A-79
; Sequence 79, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent In Ver. 2.0
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; SEQ ID NO 79
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
; OTHER INFORMATION: 1-Beta-AM-SAPORIN
US-09-792-793A-79

Query Match      13.2%; Score 162; DB 9; Length 327;
Best Local Similarity 27.8%; Pred. No. 7.5e-11;
Matches 66; Conservative 43; Mismatches 90; Indels 38; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 78 ITLDLVNPTAG-QYSSFVDKIRNNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 129

QY 59 -TNOGXDSXTAAIDVTNXYVYVAYQAGD-----QSYFLRDAPRGAE-THLP-TGTTDRSS 110
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 130 QSSRGTVSLGLKRD--NLYVVAYLAMDNNTNVRAYYFRSEITSAESTALFPEATTANOKA 187

QY 111 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIQSVXALRXPGGSTRXQARSILILQIOM 164
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 188 LEYTEDYQSIEKNAQITQDQSRKELGIDLLSTMEAVNKKARVVKDEARFLIAIQM 247

QY 165 ISEAAARFNPILWRXRXQI---NSGXSFDPDXMYMLETSGWQQOSTQVQ-HSTDGVFN 217
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 248 TAEAAARF-----RYIQLNLIKPNFKNSFNKVIQFEVNNKKISTAIYGDAGKNGVFN 299

RESULT 15
US-09-792-793A-82
; Sequence 82, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 82
; LENGTH: 330
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
; OTHER INFORMATION: BOTAXIN-AM-SAPORIN
US-09-792-793A-82

Query Match      13.2%; Score 162; DB 9; Length 330;
Best Local Similarity 27.8%; Pred. No. 7.6e-11;
Matches 66; Conservative 43; Mismatches 90; Indels 38; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 81 ITLDLVNPTAG-QYSSFVDKIRNNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 132

QY 59 -TNOGXDSXTAAIDVTNXYVYVAYQAGD-----QSYFLRDAPRGAE-THLP-TGTTDRSS 110
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 133 QSSRGTVSLGLKRD--NLYVVAYLAMDNNTNVRAYYFRSEITSAESTALFPEATTANOKA 190

QY 111 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIQSVXALRXPGGSTRXQARSILILQIOM 164
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 191 LEYTEDYQSIEKNAQITQDQSRKELGIDLLSTMEAVNKKARVVKDEARFLIAIQM 250

QY 165 ISEAAARFNPILWRXRXQI---NSGXSFDPDXMYMLETSGWQQOSTQVQ-HSTDGVFN 217
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 251 TAEAAARF-----RYIQLNLIKPNFKNSFNKVIQFEVNNKKISTAIYGDAGKNGVFN 302
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Sat Mar 22 10:41:36 2003

Search completed: March 22, 2003, 10:37:44
Job time : 10.9953 secs

us-09-601-667c-41.rapb

GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 7.90123 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-41

Perfect score: 1223

Sequence: 1 YERLRVTHQTGXEXYFRF.....XVIASLAIMLFVCGERPSSS 256

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/prodata/2/iaa/5A COMB.pcp.*
- 2: /cgn2_6/prodata/2/iaa/5B COMB.pcp.*
- 3: /cgn2_6/prodata/2/iaa/5A COMB.pcp.*
- 4: /cgn2_6/prodata/2/iaa/5B COMB.pcp.*
- 5: /cgn2_6/prodata/2/iaa/5A COMB.pcp.*
- 6: /cgn2_6/prodata/2/iaa/5B COMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1165	95.3	564	4	US-08-776-059-35
2	1155	94.4	253	4	US-08-776-059-31
3	1073	87.7	235	4	US-08-776-059-39
4	453.5	37.1	250	1	US-08-378-761A-71
5	453.5	37.1	250	1	US-08-485-286-71
6	376	30.7	267	1	US-07-901-707-1
7	376	30.7	267	1	US-07-988-430-1
8	376	30.7	267	1	US-08-218-303-16
9	376	30.7	267	1	US-08-425-336-1
10	376	30.7	267	1	US-08-488-113B-1
11	376	30.7	267	1	US-08-477-484B-1
12	376	30.7	267	2	US-08-646-360-1
13	376	30.7	267	2	US-08-338-793D-61
14	376	30.7	267	4	US-08-839-765-1
15	376	30.7	267	4	US-09-136-389-1
16	376	30.7	267	4	US-09-610-838-1
17	376	30.7	267	5	PCT-US92-09487-1
18	376	30.7	267	2	US-08-485-286-71
19	376	30.7	267	2	US-08-356-786-8
20	372	30.4	290	1	US-08-378-761A-27
21	372	30.4	290	1	US-08-485-286-27
22	372	30.4	290	6	5248606-4
23	370.5	30.3	540	1	US-08-378-761A-77
24	370.5	30.3	540	1	US-08-485-286-77
25	326	26.7	282	1	US-08-324-301-15
26	301	24.6	267	1	US-08-378-761A-74
27	301	24.6	267	1	US-08-485-286-74

28	299	24.4	247	1	US-08-488-113B-6	Sequence 6, Appli
29	299	24.4	247	1	US-08-477-484B-6	Sequence 6, Appli
30	299	24.4	247	2	US-08-646-360-6	Sequence 6, Appli
31	299	24.4	247	4	US-08-839-765-6	Sequence 6, Appli
32	299	24.4	247	4	US-09-136-389-6	Sequence 6, Appli
33	299	24.4	247	4	US-09-610-838-6	Sequence 6, Appli
34	294	24.0	289	1	US-07-923-692C-4	Sequence 4, Appli
35	294	24.0	289	1	US-08-184-237-4	Sequence 4, Appli
36	294	24.0	289	2	US-08-482-920-4	Sequence 4, Appli
37	294	24.0	289	3	US-08-484-341-4	Sequence 4, Appli
38	294	24.0	289	4	US-08-483-502-4	Sequence 4, Appli
39	294	24.0	289	4	US-09-726-651A-4	Sequence 4, Appli
40	284.5	23.3	251	1	US-08-425-336-111	Sequence 111, App
41	284.5	23.3	251	1	US-08-488-113B-111	Sequence 111, App
42	284.5	23.3	251	1	US-08-477-484B-111	Sequence 111, App
43	284.5	23.3	251	2	US-08-646-360-111	Sequence 111, App
44	284.5	23.3	251	4	US-08-839-765-111	Sequence 111, App
45	284.5	23.3	251	4	US-09-136-389-111	Sequence 111, App

ALIGNMENTS

RESULT 1

US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368

; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans

; APPLICANT: ECK, Jurgen

; APPLICANT: BAUR, Axel

; APPLICANT: ZINKE, Holger

; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)

; FILE REFERENCE: 674503-2003

; CURRENT APPLICATION NUMBER: US/08/776,059B

; CURRENT FILING DATE: 1999-06-19

; EARLIER APPLICATION NUMBER: PCT/EP96/02273

; EARLIER FILING DATE: 1996-06-25

; EARLIER APPLICATION NUMBER: 95109949.8

; NUMBER OF SEQ ID NOS: 56

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 35

; LENGTH: 564

; TYPE: PRT

; ORGANISM: Viscum album

; US-08-776-059-35

Query Match

Best Local Similarity 95.3%; Score 1165; DB 4; Length 564;

Mismatches 235; Conservative 0; Mismatches 19; Indels 2; Gaps 1;

Qy	1	YERLRVTHQTGXEXYFRFILLRDYVSSGSFNEIPLLRQSTIPVSDAQRFLVLTN	60
Db	34	YERLRVTHQTGXEXYFRFILLRDYVSSGSFNEIPLLRQSTIPVSDAQRFLVLTN	93
Qy	61	CGXDSXTAAIDVTNXXVYVAYQAGDSYFLRDAPRGAETHLFTGTTDRSSLPFXGSYXDL	120
Db	94	CGXDSXTAAIDVTNXXVYVAYQAGDSYFLRDAPRGAETHLFTGTTDRSSLPFXGSYXDL	151
Qy	121	ERYAGHRDQPLGXQLIQSVXALRXPGGSTRXQARSILILIQMISEAARENPILWRXQ	180
Db	152	ERYAGHRDQPLGXQLIQSVXALRXPGGSTRXQARSILILIQMISEAARENPILWRXQ	211
Qy	181	XINSGXFLPDYXVMELETSGWQOSTQVQSTDCGVNXPXELATXXGNFVTLXNVRXVIA	240
Db	212	YINSGASFLPDYXVMELETSGWQOSTQVQSTDCGVNXPXELATXXGNFVTLXNVRXVIA	271
Qy	241	SLAIMLFVCGERPSSS	256
Db	272	SLAIMLFVCGERPSSS	287

Sat Mar 22 10:41:35 2003

US-08-776-059-39

Query Match 87.7%; Score 1073; DB 4; Length 235;
 Best Local Similarity 91.6%; Pred. No. 2.3e-121;
 Matches 217; Conservative 0; Mismatches 18; Indels 2; Gaps 1;
 QY 18 FRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTNOGSDXTAAIDVTNXYV 77
 DB 1 FRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTNOGSDXTAAIDVTNXYV 60
 QY 78 VAYQAGDOSYFLRDAPRGAETHLFTGTTDRSSLPFXGSYXDLERYAGHRDQIPLGIXQL 137
 DB 61 VAYQAGDOSYFLRDAPRGAETHLFTGTT--RSLPFGSYPDLERYAGHRDQIPLGIDQL 118
 QY 138 IQSVXALRXPGGSTRXQARSILILIQMISEAARFNPILWRXRXINSXGSLPDXMYMLEL 197
 DB 119 IQSVTALRFPGGSTRTOARSILILIQMISEAARFNPILWRARQYINSXGSLPDXMYMLEL 178
 QY 198 ETSWGQOSTQVOHSTGCVFNNPXRLLAIXXGNFVTLKXNRXVIAASLAIMLFVCGERPS 254
 DB 179 ETSWGQOSTQVOHSTGCVFNNPILRLAIPGNFVTLINRVDVIAASLAIMLFVCGERPS 235

RESULT 4

US-08-378-761A-71
 ; Sequence 71, Application US/08378761A
 ; Patent No. 5635384
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSHE, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; TITLE OF INVENTION: USING
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA: US/08/378,761A
 ; FILING DATE: 26-JAN-1995
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 71:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 250 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-378-761A-71

Query Match 37.1%; Score 453.5; DB 1; Length 250;
 Best Local Similarity 41.9%; Pred. No. 1.2e-46;
 Matches 106; Conservative 34; Mismatches 86; Indels 27; Gaps 7;
 QY 9 THQTGTGXEYFRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTNOGSDXTA 68
 DB 9 TEGATSQYKQFTEALRERL-RGLIHDPVLPDPT-TLQERNRYITVELSNSDTESEV 66

Query Match 94.4%; Score 1155; DB 4; Length 253;

Best Local Similarity 91.3%; Pred. No. 3.3e-131;
 Matches 232; Conservative 1; Mismatches 19; Indels 2; Gaps 1;

QY 1 YERILRVTHQTGTGXEYFRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTN 60
 DB 2 YERILRVTHQTGTGXEYFRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTN 61
 QY 61 QGXDXTAAIDVTNXYVAYQAGDOSYFLRDAPRGAETHLFTGTTDRSSLPFXGSYXDL 120
 DB 62 QGDSITAAIDVTNXYVAYQAGDOSYFLRDAPRGAETHLFTGTT--RSLPFGSYPDLE 119
 QY 121 ERYAGHRDQIPLGIXQLIQSVXALRXPGGSTRXQARSILILIQMISEAARFNPILWRXRX 180
 DB 120 ERYAGHRDQIPLGIDQLIQSVTALRFPGGSTRTOARSILILIQMISEAARFNPILWEARQ 179
 QY 181 XINSXGSLPDXMYMLELETWSWGQOSTQVOHSTGCVFNNPXRLLAIXXGNFVTLKXNRXVIA 240
 DB 180 YINSXGSLPDXMYMLELETWSWGQOSTQVOHSTGCVFNNPILRLAIPGNFVTLINRVDVIA 239
 QY 241 SLAIMLFVCGERPS 254
 DB 240 SLAIMLFVCGERPS 253

RESULT 3

US-08-776-059-39
 ; Sequence 39, Application US/08776059B
 ; Patent No. 6271368
 ; GENERAL INFORMATION:
 ; APPLICANT: LENTZEN, Hans
 ; APPLICANT: ECK, Jurgen
 ; APPLICANT: BAUR, Axel
 ; APPLICANT: ZINKE, Holger
 ; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
 ; FILE REFERENCE: 674503-2003
 ; CURRENT APPLICATION NUMBER: US/08/776,059B
 ; CURRENT FILING DATE: 1999-06-19
 ; EARLIER APPLICATION NUMBER: PCT/EP96/02273
 ; EARLIER FILING DATE: 1996-06-25
 ; EARLIER APPLICATION NUMBER: 95109949.8
 ; EARLIER FILING DATE: 1995-06-26
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: Patent In Ver. 2.0
 ; SEQ ID NO 39
 ; LENGTH: 235
 ; TYPE: PRT
 ; ORGANISM: Viscum album

Qy	69	AIDVTNYYVAYAGQOOSYFLRDAPGAETHLFTGTRDRSSLPFGXSYXDLERYAGH-R	127
Dd	67	GIDVTNAVYVRAGTQSYFLRDAPSSASDYLFTGT--DQHSIPFYGYTGDLERMAHQSR	124
Qy	128	DQPLGLXQLIQSVXALRXPGGSTRQARISILILIOMISEAAFNPILRXRQOXINSGX	187
Dd	125	QQIPLGLQALTHGISPPRSGNDNEEKARTLIIVIQWAEAFRYSINRVRSIQTGTA	184
Qy	188	FLPDXYMLELETSMGQOSTOVCHSTDCGVFNNPXRLAIXKGNFVTLXNRX-----	237
Dd	185	FQPDAAIMISLENNW-DNLRGVQESVDTPFNQ-----VTLTNIRNEPVIDVSLSH	233
Qy	238	-VTASLAIMLFVC	249
Dd	234	PTVAVLAIMLFVC	246

RESULT 5

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US-08-485-286-71
; Sequence 71, Application US/08485286
; Patent No. 5646026
; Patent No. 5646026 5646119
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE D
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,286
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/378761
; FILING DATE: 26-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 250 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-485-286-71

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Qy	69	AIDVTXNYVVYVAYOAGDQSFLRDAPRGAEATHLFTGTTDRSSLPXPXSXYDLERVAGH-R	127
Dd	67	GIDVTNAYVVYVAYRAGTQSYFLRDAPSASDYSLFTGT--DQHSLPFYGYTGDLERWAHQSR	124
Qy	128	DQPLGIQLIQSVXALRXPGGSTRXQARSILILQMISEAAAFNPILWRXRQXINSCKS	187
Dd	125	QQPLGLQALTHGISFPRGGNDNEEKATLIIVIQMVAEAAFRYISNRVVSITQTGA	184
Qy	188	FLPDXYMLELETSGWQQSQTVQHSTDGVFNPNKRLAIXXGNFVTLXNVRX-----	237
Dd	185	FQPDAAVISLENNW-DNLRCVQESVDQTFPNO-----VLTLNIRNEPVIVDSLH	233
Qy	238	-VIASLAIMLFVC	249
Dd	214	PTVAVIALMI-FVC	246

RESULT 6

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US-07-901-707-1
; Sequence 1, Application US/07901707
; Patent No. 5376546
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Steve F.
; APPLICANT: Lane, Julie A.
; TITLE OF INVENTION: Materials Comprising and Methods of
; TITLE OF INVENTION: Composition and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; STREET: Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/901,707
; FILING DATE: 19920619
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5376546and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27129/30910
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-5750
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-901-707-1

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Query Match          30.7%; Score 376; DB 1; Length 267;
Best Local Similarity 39.1%; Pred. No. 2.9e-37;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

Qy 9  THQTGTGKEYPRFTLLRDYVSSGS--FSNEIPLL-ROSTIPVSDAORFVLVELTNCQXDSX 66
      | | | | | : : : | | | | | : : | | | | | : : | | | | |
Db 13 TAGATVOSYNTFTRAYVGRGLTTCADYRHETIPLVNPVRGLPIN--ORFILLISNHAELSV 70

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QY 67 TAAIDVTNXYVAVQAGDSYFLR-DAPRGAE--THLFTGTTDRSSLPFXGXYDLERY 123
 Db 71 TLALDVNTAYVVGVRAGNSAYFFPHDPNODAEATHLET-DVQNRVYTFAGGNYDRLEQL 129
 QY 124 AGH-RDOIPGLIGXOLIQSVXAL--RXPGGSTRXQARSILILIQMISEAARENPILWRXR 179
 Db 130 AGNURXNIELNGPLLEAISALYYSTGTQTLPLARSFICIQMISEAARFOYIEGENR 189
 QY 180 QXINSGXSFDPXYMLETSGWQOSTQVQHSSTDCGVFNPNXRLAIXXGNFVTLXNVXVI 239
 Db 190 TRIYNNRSADPSPVITLNSWGRSLTAIQESNQAFASPIQLQRRNGSKFSVYDVSVILI 249
 QY 240 ASLAIMLVCGERPSS 255
 Db 250 PIALMVYRCAPPSS 265

RESULT 7
 US-07-988-430-1
 ; Sequence 1, Application US/07988430
 ; Patent No. 5416202
 ; GENERAL INFORMATION:
 ; APPLICANT: Bernhard, Susan L.
 ; APPLICANT: Better, Marc D.
 ; APPLICANT: Carroll, Stephen P.
 ; APPLICANT: Lane, Julie A.
 ; APPLICANT: Lei, Shau-Ping
 ; TITLE OF INVENTION: Materials Comprising and Methods of
 ; PREPARATION AND USE FOR RIBOSOME-INACTIVATING PROTEINS
 ; NUMBER OF SEQUENCES: 101
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
 ; ADDRESSEE: Bicknell
 ; STREET: Two First National Plaza, 20 South Clark
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60603
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/988,430
 ; FILING DATE: 19921209
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/901,707
 ; FILING DATE: 19-JUN-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/787,567
 ; FILING DATE: 04-NOV-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5416202and, Greta E.
 ; REGISTRATION NUMBER: 35302
 ; REFERENCE/DOCKET NUMBER: 31133
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (312) 346-5750
 ; TELEFAX: (312) 984-9740
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 267 amino acids
 ; TYPE: AMINO ACID
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-07-988-430-1

Query Match 30.7%; Score 376; DB 1; Length 267;
 Best Local Similarity 39.1%; Pred. No. 2.9e-37;
 Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTTGXEFRTILLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGDXSX 66
 Db 13 TAGATVQSVTNFIRAVRGLTTGADVREHEIPVLPNVRGLPIN--QRFILVELSNHAELSV 70
 QY 67 TAAIDVTNXYVAVQAGDSYFLR-DAPRGAE--THLFTGTTDRSSLPFXGXYDLERY 123
 Db 71 TLALDVNTAYVVGVRAGNSAYFFPHDPNODAEATHLET-DVQNRVYTFAGGNYDRLEQL 129
 QY 124 AGH-RDOIPGLIGXOLIQSVXAL--RXPGGSTRXQARSILILIQMISEAARENPILWRXR 179
 Db 130 AGNURXNIELNGPLLEAISALYYSTGTQTLPLARSFICIQMISEAARFOYIEGENR 189
 QY 180 QXINSGXSFDPXYMLETSGWQOSTQVQHSSTDCGVFNPNXRLAIXXGNFVTLXNVXVI 239
 Db 190 TRIYNNRSADPSPVITLNSWGRSLTAIQESNQAFASPIQLQRRNGSKFSVYDVSVILI 249
 QY 240 ASLAIMLVCGERPSS 255
 Db 250 PIALMVYRCAPPSS 265

RESULT 8
 US-08-218-303-16
 ; Sequence 16, Application US/08218303
 ; Patent No. 5547867
 ; GENERAL INFORMATION:
 ; APPLICANT: Kara, Bhupendra V.
 ; APPLICANT: Hockney, Robert C.
 ; APPLICANT: Fitton, John E.
 ; TITLE OF INVENTION: FERMENTATION PROCESS
 ; NUMBER OF SEQUENCES: 23
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Cushman, Darby & Cushman
 ; STREET: 1615 L Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20036-5601
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/218,303
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/841,533
 ; FILING DATE: 26-FEB-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kokulis, Paul N.
 ; REGISTRATION NUMBER: 16,773
 ; REFERENCE/DOCKET NUMBER: PNK/3893/94908/MW
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-861-3000
 ; TELEFAX: 202-822-0944
 ; TELEX: 6714627 CUSH
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 267 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-218-303-16

Query Match 30.7%; Score 376; DB 1; Length 267;
 Best Local Similarity 39.1%; Pred. No. 2.9e-37;
 Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTTGXEFRTILLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGDXSX 66

Db 13 TAGATVQSTNTIRAVRGLTTGADVVRHEIPVLPNRVGLPIN--QRFILVLSNHAELSV 70
 QY 67 TAAIDVTNXYVAYQAGDOSYFLR--DAPRGAE--THLFTGTTDRSSLPFKSGYXDLERY 123
 Db 71 TLALDVTNAYVGVYRAGNSAYFFHFDNQDEDAIATHLFT--DVQNRVYTFAGGNYDRLEQL 129
 QY 124 AGH--RDQIPGLIXQLIQSVXAL---RXPGGSTRXQARSILILMISEAARENPIILWRXR 179
 Db 130 AGNLRNLELNGPLLEEAISALYYSTGTQTLPTLARSFIICIMISEAARFOYIEGMR 189
 QY 180 QXINGSGSFLPDXYMLETLSWGQOSTOVQHSSTGDFVNNPRLAIXXGNFVTLXNVRXVI 239
 Db 190 TRIYRNRSAPDPSVITLNSWGRSLTAIQESNQAFASPIQLQRRNGSKFSVYDVSILI 249
 QY 240 ASLAIMLFVCGERPSS 255
 Db 250 PIIALMVYRCAPPSS 265

RESULT 9

US-08-425-336-1
 ; Sequence 1, Application US/08425336
 ; Patent No. 5621083

GENERAL INFORMATION:

APPLICANT: Better, Marc D.
 APPLICANT: Carroll, Stephen F.
 APPLICANT: Studnika, Gary M.
 TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
 NUMBER OF SEQUENCES: 140
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 STREET: 6300 Sears Tower, 233 South Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA: US/08/425,336
 FILING DATE: 18-APR-1995
 CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/064,691
 FILING DATE: 12-MAY-1993
 APPLICATION NUMBER: US 07/901,707
 FILING DATE: 19-JUN-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/787,567
 FILING DATE: 04-NOV-1991

ATTORNEY/AGENT INFORMATION:

NAME: Meyers, Thomas C.
 REGISTRATION NUMBER: P-36,989
 REFERENCE/DOCKET NUMBER: 31394
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 312/474-0448
 TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
 LENGTH: 267 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-425-336-1

Query Match 30.7%; Score 376; DB 1; Length 267;
 Best Local Similarity 39.1%; Pred. No. 2.9e-37;

Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;
 QY 9 THQTTCXCYFRITILRDVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQCXDSX 66
 Db 13 TAGATVQSTNTIRAVRGLTTGADVVRHEIPVLPNRVGLPIN--QRFILVLSNHAELSV 70
 QY 67 TAAIDVTNXYVAYQAGDOSYFLR--DAPRGAE--THLFTGTTDRSSLPFKSGYXDLERY 123
 Db 71 TLALDVTNAYVGVYRAGNSAYFFHFDNQDEDAIATHLFT--DVQNRVYTFAGGNYDRLEQL 129
 QY 124 AGH--RDQIPGLIXQLIQSVXAL---RXPGGSTRXQARSILILMISEAARENPIILWRXR 179
 Db 130 AGNLRNLELNGPLLEEAISALYYSTGTQTLPTLARSFIICIMISEAARFOYIEGMR 189
 QY 180 QXINGSGSFLPDXYMLETLSWGQOSTOVQHSSTGDFVNNPRLAIXXGNFVTLXNVRXVI 239
 Db 190 TRIYRNRSAPDPSVITLNSWGRSLTAIQESNQAFASPIQLQRRNGSKFSVYDVSILI 249
 QY 240 ASLAIMLFVCGERPSS 255
 Db 250 PIIALMVYRCAPPSS 265

RESULT 10

US-08-488-1138-1
 ; Sequence 1, Application US/084881138
 ; Patent No. 5744580

GENERAL INFORMATION:

APPLICANT: Better, Marc D.
 APPLICANT: Carroll, Stephen F.
 APPLICANT: Studnika, Gary M.
 TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
 NUMBER OF SEQUENCES: 169
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: McAndrews, Held & Malloy, Ltd.
 STREET: 500 West Madison Street, 34th floor
 CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 ZIP: 60661

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/488,1138
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/425,336
 FILING DATE: 18-APR-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/064,691
 FILING DATE: 12-MAY-1993
 APPLICATION NUMBER: US 07/988,430
 FILING DATE: 09-DEC-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/901,707
 FILING DATE: 19-JUN-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/787,567
 FILING DATE: 04-NOV-1991

ATTORNEY/AGENT INFORMATION:

NAME: McNicholas Janet M.
 REGISTRATION NUMBER: 32,918
 REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/707-8889
 TELEFAX: 312/707-9155
 TELEX: 650 388-1248

us-09-601-667c-41.ra1

Sat Mar 22 10:41:35 2003

APPLICATION NUMBER: US 07/787,567
 FILING DATE: 04-NOV-1991
 ATTORNEY/AGENT INFORMATION: M.
 NAME: McNicholas, Janet M.
 REGISTRATION NUMBER: 32,918
 REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/707-8889
 TELEFAX: 312/707-9155
 TELEX: 650 388-1248
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 267 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-477-484B-1

Query Match 30.7%; Score 376; DB 1; Length 267;
 Best Local Similarity 39.1%; Pred. No. 2.9e-37;
 Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 267 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-488-113B-1

Query Match 30.7%; Score 376; DB 1; Length 267;
 Best Local Similarity 39.1%; Pred. No. 2.9e-37;
 Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THOTTGXEYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNOGXDSX 66
 DB 13 TAGATVQSYTNFIRAVRGRLLTGADVRHEIPVLPNVRGLPIN--QRFILVELSNHAE LSV 70
 QY 67 TAAIDVTNXXVAVQAGDSYFLR-DAPRGAE--THLFTGTTDRSSLPXGXYDLERY 123
 DB 71 TLALDVTNAVVGVRAGNSAYFFHPDQEDAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
 QY 124 AGH-RDQIPIGLIXOLIOSVXAL---RXPGGSTRXQARSILILIQMISEAARFNPILWRXR 179
 DB 130 AGNLRENIELGNGPLEEASALYYSTGGTQPLTLARSFICIQMISEAARFQVIEGEMR 189
 QY 180 QXNSGXSFPLDXMYMLETSGQOSTQVQHSITDGVFNPNPRLAIXXGNFVTLXNVXVI 239
 DB 190 TRIYNRRSAPDPSPVITLNSWGLRLTAIQESNQGFASPIQLORRNGSKFSVYDVSILI 249
 QY 240 ASLAIMLFVCGERPSS 255
 DB 250 PIIALMVYRCAPPPSS 265

RESULT 11

US-08-477-484B-1

; Sequence 1, Application US/08477484B
 ; Patent No. 5756699
 ; GENERAL INFORMATION:
 ; APPLICANT: Better, Marc D.
 ; APPLICANT: Carroll, Stephen F.
 ; APPLICANT: Studnika, Gary M.
 ; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
 ; NUMBER OF SEQUENCES: 169
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
 ; STREET: 500 West Madison Street, 34th floor
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60661
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/477,484B
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/425,336
 ; FILING DATE: 18-APR-1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/064,691
 ; FILING DATE: 12-MAY-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/988,430
 ; FILING DATE: 09-DEC-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/901,707
 ; FILING DATE: 19-JUN-1992
 ; PRIOR APPLICATION DATA:

RESULT 12

US-08-646-360-1

; Sequence 1, Application US/08646360
 ; Patent No. 5837491
 ; GENERAL INFORMATION:
 ; APPLICANT: Better, Marc D.
 ; APPLICANT: Carroll, Stephen F.
 ; APPLICANT: Studnika, Gary M.
 ; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
 ; NUMBER OF SEQUENCES: 173
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
 ; STREET: 500 West Madison Street, 34th floor
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60661
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/646,360
 ; FILING DATE: 13-MAY-1996
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US94/05349
 ; FILING DATE: 12-MAY-1994

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 200-70.P4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-646-360-1

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Query Match 30.7%; Score 376; DB 2; Length 267;
Best Local Similarity 39.1%; Pred. No. 2.9e-37;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTGXYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFVLVELTNCQXDSX 66
DB 13 TAGATVQSYTNFIRAVRGRLTGADVRIEIPVLPNVEGLPIN--QRFLVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYQAGDOSYFLR-DAPRGAE--THLFTGTTTRDRSSLPFGSYXDLERY 123
DB 71 TLALDVTNAYVGYRAGNSAYFFHPDQEDAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPGLGXQLIQSVXAL--RXPGGSTRXQARSILILIQMISEAARFNPLWEXR 179
DB 130 AGNLRENIELGNGLPEEAISALYYVYTGTTQLPTLARSFIIQMISEAAAFQYIEGMR 189
QY 180 QXINSXSLPDXMYLETSWGQOSTOVQHSPTDGVFNPNXRLAIXXGNFVTLXNVXXVI 239
DB 190 TRIRYRRSAPPSPVITLNSWGRLSTALQESNQAFASPIQLQRRNGSKFSVYDVSILI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIALMWYRCAPPSS 265

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RESULT 13
US-08-338-793D-61
; Sequence 61, Application US/08338793D
; Patent No. 5840521
; GENERAL INFORMATION:
; APPLICANT: Barth, Peter Thomas
; TITLE OF INVENTION: VECTOR
; NUMBER OF SEQUENCES: 61
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DABY CUSHMAN
; ADDRESS: INTELLECTUAL PROPERTY GROUP OF
; ADDRESSEE: PILLSBURY MADISON & SUTRO, L.L.P.
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
; COMPUTER: IBM PC/XT/AT Compatibles

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; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word or ASCII editors
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/338,793D
; FILING DATE: 08-NOV-5840521-94
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/842,081
; FILING DATE: 26-Feb-92
; CLASSIFICATION: 435
; APPLICATION NUMBER: 9104017.0
; APPLICATION NUMBER: 9109188.4
; FILING DATE: 26-Feb-91
; FILING DATE: 29-Apr-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Kokulis, Paul N.
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: DJB/9901/215431/TGW
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEX: 6714627 CUSH
; TELEFAX: 202-822-0944
; INFORMATION FOR SEQ ID NO: 61:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
US-08-338-793D-61

Query Match 30.7%; Score 376; DB 2; Length 267;
Best Local Similarity 39.1%; Pred. No. 2.9e-37;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;

QY 9 THQTGXYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFVLVELTNCQXDSX 66
DB 13 TAGATVQSYTNFIRAVRGRLTGADVRIEIPVLPNVEGLPIN--QRFLVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYQAGDOSYFLR-DAPRGAE--THLFTGTTTRDRSSLPFGSYXDLERY 123
DB 71 TLALDVTNAYVGYRAGNSAYFFHPDQEDAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPGLGXQLIQSVXAL--RXPGGSTRXQARSILILIQMISEAARFNPLWEXR 179
DB 130 AGNLRENIELGNGLPEEAISALYYVYTGTTQLPTLARSFIIQMISEAAAFQYIEGMR 189
QY 180 QXINSXSLPDXMYLETSWGQOSTOVQHSPTDGVFNPNXRLAIXXGNFVTLXNVXXVI 239
DB 190 TRIRYRRSAPPSPVITLNSWGRLSTALQESNQAFASPIQLQRRNGSKFSVYDVSILI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIALMWYRCAPPSS 265

```

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RESULT 14
US-08-839-765-1
; Sequence 1, Application US/08839765
; Patent No. 6146631
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; NUMBER OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/839,765
FILING DATE: 15-APR-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/425,336
FILING DATE: 18-APR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/064,691
FILING DATE: 12-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/988,430
FILING DATE: 09-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/901,707
FILING DATE: 19-JUN-1992
APPLICATION NUMBER: US 07/787,567
FILING DATE: 04-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 11022US09/200-70.P3.C3
TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 267 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-839-765-1

Query Match 30.7%; Score 376; DB 4; Length 267;
Best Local Similarity 39.1%; Pred. No. 2.9e-37;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;
QY 9 THQTGXEFYRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAORFVLVELTNOGXDSX 66
DB 13 TAGATVQSYTNFIRAVRGLTTGADVRRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYAGQDSYFLR-DAPRGAE--THLFTGTTDRSSLPFXGSGYXDLERY 123
DB 71 TLALDVTNAYVVGVRAGNSAYFFHPDNOEDAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPGLIXQLIQSVXAL---RXPFGSTRQXARSILILIQMISEAARNPILWRXR 179
DB 130 AGNLRNIELGNGLPEEAISALYYSTGCTQLPTLARSFIICIQMISEAARFYIEGEMR 189
QY 180 QXINGSGXFLPDXYMLETSGQOSTOVQHSITDGVFNPNXRLAIXXGNFVTLXNVXVI 239
DB 190 TRIRYNNRSPDPSPVITLNSWGRSLTAIQESNQAFASPIQLQRRNGSKFSYVDVSIIL 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIIALMWYRCAPPSS 265

RESULT 15
US-09-136-389-1
Sequence 1, Application US/09136389
Patent No. 6146850
GENERAL INFORMATION:
APPLICANT: Better, Marc D.
APPLICANT: Carroil, Stephen F.
APPLICANT: Studnika, Gary M.

TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
TITLE OF INVENTION: Proteins
NUMBER OF SEQUENCES: 173
CORRESPONDENCE ADDRESS:
ADDRESSEE: McAndrews, Held & Malloy, Ltd.
STREET: 500 West Madison Street, 34th floor
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60661
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/136,389
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/646,360
FILING DATE: 13-MAY-1996
APPLICATION NUMBER: PCT/US94/05348
FILING DATE: 12-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/064,691
FILING DATE: 12-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/988,430
FILING DATE: 09-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/901,707
FILING DATE: 19-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/787,567
FILING DATE: 04-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 200-70.P4
TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
TELEX: 650 388-1248
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 267 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-136-389-1

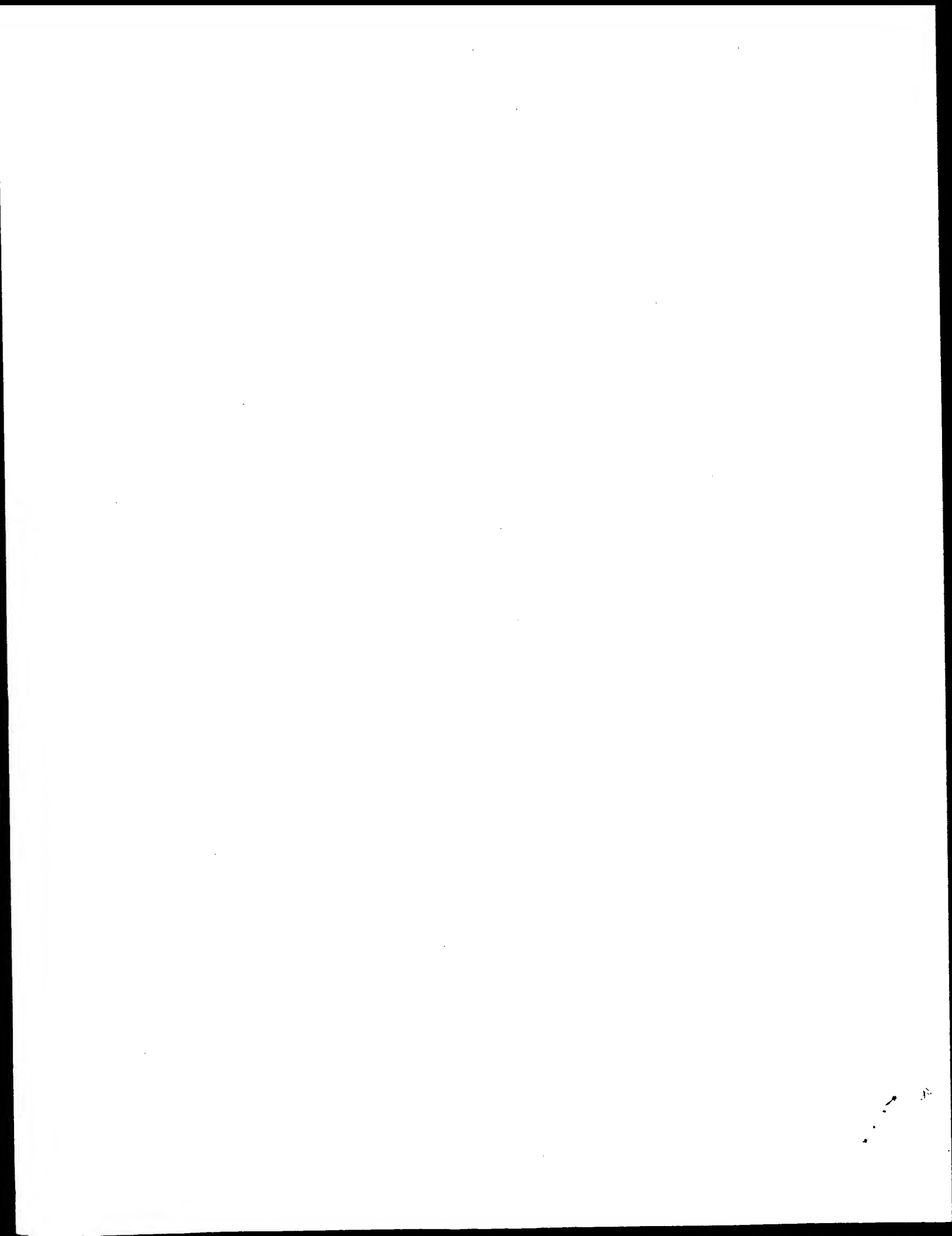
Query Match 30.7%; Score 376; DB 4; Length 267;
Best Local Similarity 39.1%; Pred. No. 2.9e-37;
Matches 100; Conservative 43; Mismatches 101; Indels 12; Gaps 8;
QY 9 THQTGXEFYRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAORFVLVELTNOGXDSX 66
DB 13 TAGATVQSYTNFIRAVRGLTTGADVRRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNXYVAYAGQDSYFLR-DAPRGAE--THLFTGTTDRSSLPFXGSGYXDLERY 123
DB 71 TLALDVTNAYVVGVRAGNSAYFFHPDNOEDAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPGLIXQLIQSVXAL---RXPFGSTRQXARSILILIQMISEAARNPILWRXR 179
DB 130 AGNLRNIELGNGLPEEAISALYYSTGCTQLPTLARSFIICIQMISEAARFYIEGEMR 189
QY 180 QXINGSGXFLPDXYMLETSGQOSTOVQHSITDGVFNPNXRLAIXXGNFVTLXNVXVI 239
DB 190 TRIRYNNRSPDPSPVITLNSWGRSLTAIQESNQAFASPIQLQRRNGSKFSYVDVSIIL 249
QY 240 ASLAIMLFVCGERPSS 255

Sat Mar 22 10:41:35 2003

Db 250 PIALWVRCAPPSS 265

Search completed: March 22, 2003, 09:59:52
Job time : 8.90123 secs

us-09-601-667c-41.xai



GenCore version 5.1.4 p5 4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 18.7284 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-1

Perfect score: 2616

Sequence: 1 YERLRLRVTHTGTGXYFRF.....RRIIYPATGKPNQWLVPVX 533

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA.*
1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
2: /cgn2_6/ptodata/2/pubpaa/PT_NEW_PUB pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB pep.*
7: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB pep.*
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10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB pep.*
11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
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13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1267.5	48.5	263	10	US-09-347-064-10
2	1267.5	48.5	267	10	US-09-347-064-4
3	1155.5	44.2	252	10	US-09-347-064-8
4	1151.5	44.0	252	10	US-09-347-064-2
5	308.5	11.8	247	9	US-09-792-793A-39
6	280	10.7	247	9	US-09-792-793A-34
7	271.5	10.4	332	10	US-09-792-793A-36
8	268	10.2	251	10	US-09-765-527-251
9	265	10.1	293	10	US-09-765-527-247
10	265	10.1	309	10	US-09-765-527-259
11	229	8.8	250	9	US-09-765-527-233
12	165.5	6.3	263	10	US-09-792-793A-36
13	165.5	6.3	314	10	US-09-792-793A-4
14	162	6.2	145	12	US-10-074-527-2
15	155	5.9	275	9	US-09-792-793A-35
16	133.5	5.9	327	9	US-09-792-793A-85
17	133.5	5.9	330	9	US-09-792-793A-79
18	133.5	5.9	332	9	US-09-792-793A-82
19	133.5	5.9	332	9	US-09-792-793A-73

20	153.5	5.9	332	9	US-09-792-793A-76
21	119.5	4.6	135	9	US-09-973-457-5
22	119.5	4.6	135	12	US-10-074-527-6
23	119.5	4.6	323	9	US-09-792-793A-80
24	119.5	4.6	325	9	US-09-792-793A-81
25	119	4.5	110	10	US-09-978-274A-8
26	117.5	4.5	480	10	US-09-770-621-5
27	117.5	4.5	492	10	US-09-770-621-4
28	117.5	4.5	492	10	US-09-770-621-7
29	115.5	4.4	491	10	US-09-770-621-8
30	114.5	4.4	325	9	US-09-792-793A-74
31	114.5	4.4	327	9	US-09-792-793A-75
32	113.5	4.3	249	9	US-09-792-793A-83
33	113.5	4.3	320	9	US-09-792-793A-84
34	113.5	4.3	322	9	US-09-792-793A-77
35	113.5	4.3	325	9	US-09-792-793A-78
36	113.5	4.3	326	10	US-09-792-793A-71
37	113.5	4.3	326	10	US-09-334-477-37
38	113.5	4.3	327	9	US-09-792-793A-72
39	113.5	4.3	690	10	US-09-334-477-33
40	113.5	4.3	708	10	US-09-334-477-47
41	113	4.3	293	9	US-09-792-793A-37
42	113	4.3	315	10	US-09-334-477-2
43	113	4.3	318	10	US-09-334-477-6
44	113	4.3	323	10	US-09-334-477-21
45	113	4.3	326	10	US-09-334-477-25

ALIGNMENTS

RESULT 1
US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger

; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347, 064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-10

Query Match

Best Local Similarity 48.5%; Score 1267.5; DB 10; Length 263;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;

QY	270	DDVTCASEPTVIRIGRMXVVDVDDDFHGNQIQLPWKSNNPNQWLTIKRDXTIRS	329
DB	1	DDVTCASEPTVIRIGRMXVVDVDDDFHGNQIQLPWKSNNPNQWLTIKRDXTIRS	60
QY	330	NGSLTFTYGTAGVYVVMIFDCNTAVREATIWTQXNGTIIINPRNLVLAASSGKGTTLT	389
DB	61	NGSLTFTYGTAGVYVVMIFDCNTAVREATIWTQXNGTIIINPRNLVLAASSGKGTTLT	120
QY	390	VOTLDVTLGGWLAGNDTAPREVITYGFRDLCMESNXGVSVMVETCKSSOXNOXXWALYGD	449
DB	121	VOTLDVTLGGWLAGNDTAPREVITYGFRDLCMESNGGVSVMVETCVSOKNQ-RWALYGD	179

; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
; US-09-347-064-8

Query Match 44.2%; Score 1155.5; DB 10; Length 252;
Best Local Similarity 91.7%; Pred. No. 8.5e-112;
Matches 232; Conservative 1; Mismatches 19; Indels 1; Gaps 1;
QY 1 YERLRLRVTHQTTCXGYFRFILLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTN 60
DB 1 YERIRLRVTHQTTCXGYFRFILLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTN 60
QY 61 QGXDSTAAIDVTNXYVAYQAGDOSYFLRDAPRGAETHLFTGTTRXSSLPFXGSYXDLE 120
DB 61 QGDSITAAIDVTNLYVAYQAGDOSYFLRDAPRGAETHLFTGTTR-SLPPENGSIYDLE 119
QY 121 RYAGHRDQIPLGIXQLIOSVXALRXPGGSTRXQARSILILQIMISEAARFNPLMRXQ 180
DB 120 RYAGHRDQIPLGIDQLIOSVXALRXPGGSTRXQARSILILQIMISEAARFNPLMRARQY 179
QY 181 INSGXFLPDXYMLELETSWGQOSTOVQHSTDGVFNPNPRLAIXXGNFVTLXNVXVIAS 240
DB 180 INSGASFLPDVYMLELETSWGQOSTOVQHSTDGVFNPNPRLAIPGNGFVTLTVNRDVAS 239
QY 241 LAIMLFVCGERPS 253
DB 240 LAIMLFVCGERPS 252

RESULT 2

US-09-347-064-4
; Sequence 4, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 267
; TYPE: PRT
; ORGANISM: Viscum album
; US-09-347-064-4

Query Match 48.5%; Score 1267.5; DB 10; Length 267;
Best Local Similarity 91.6%; Pred. No. 2.3e-123; Indels 1; Gaps 1;
Matches 241; Conservative 1; Mismatches 20;

QY 270 DDVTCSEPTVRIIGRGMXVDVDRDDFDGNGIQLWPSKSNNDPNQLWTIKRDXTIRS 329
DB 1 DDVTCSEPTVRIIGRGMXVDVDRDDFDGNGIQLWPSKSNNDPNQLWTIKRDXTIRS 60
QY 330 NGSCLTYYGYTAGVYVIMFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 389
DB 61 NGSCLTYYGYTAGVYVIMFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 120
QY 390 VQTLDTLGGWLAGNDTAPREVTIYGFRLCMESNXXSVVWVETCVSSQKNQ-RWALYGD 449
DB 121 VQTLDTLGGWLAGNDTAPREVTIYGFRLCMESNXXSVVWVETCVSSQKNQ-RWALYGD 179
QY 450 GSIRPKNQDQCLTXGRDVSSTVINIVSCSXSSXXQORWVFTNEXAILNLKXXXXVDAQA 509
DB 180 GSIRPKNQDQCLTXGRDVSSTVINIVSCSXSSGSGORWVFTNEGAILNLKGLANDVDAQA 239
QY 510 NPKLRRIIYPATGKPNQMWLPV 532
DB 240 NPKLRRIIYPATGKPNQMWLPV 262

RESULT 3

US-09-347-064-8
; Sequence 8, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A

Query Match 44.0%; Score 1151.5; DB 10; Length 252;
Best Local Similarity 91.7%; Pred. No. 2.2e-111; Indels 1; Gaps 1;
Matches 231; Conservative 1; Mismatches 19;

QY 1 YERLRLRVTHQTTCXGYFRFILLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTN 60
DB 2 YERLRLRVTHQTTCXGYFRFILLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTN 61
QY 61 QGXDSTAAIDVTNXYVAYQAGDOSYFLRDAPRGAETHLFTGTTRXSSLPFXGSYXDLE 120

Db 62 QGDSITAAIDVNNLYVAYAGDOSYFURDAPRGAEHLFTGTTR--SSLPNGSYPDLE 120
QY 121 RVAGHRDQPLGIXQLIOSVXALRXPGGSTRXQARSILILIOISEAARENPILWRXRX 180
Db 121 RVAGHRDQPLGIXQLIOSVXALRXPGGSTRXQARSILILIOISEAARENPILWRXRX 180
QY 181 INSGXSFDPXYMLETSGOOSTOVHSTGDFVNNPRLAIXXGNFVTLXNVKXVIA 240
Db 181 INSGXSFDPXYMLETSGOOSTOVHSTGDFVNNPRLAIXXGNFVTLXNVKXVIA 240
QY 241 LAIMLFVCGERP 252
Db 241 LAIMLFVCGERP 252

RESULT 5

US-09-792-793A-39

; Sequence 39, Application US/09792793A

; Patent No. US20020168370A1

; GENERAL INFORMATION:

; APPLICANT: McDonald, John R.

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY

; TISSUE DAMAGE AND DISORDERS

; FILE REFERENCE: 25020-601D

; CURRENT APPLICATION NUMBER: US/09/792,793A

; CURRENT FILING DATE: 2001-02-22

; NUMBER OF SEQ ID NOS: 93

; SOFTWARE: Patent in Ver. 2.0

; SEQ ID NO 39

; LENGTH: 247

; TYPE: PRT

; ORGANISM: Trichosanthens kirilowii

US-09-792-793A-39

Query Match 11.8%; Score 308.5; DB 9; Length 247;
Best Local Similarity 34.7%; Pred. No. 4.6e-24;
Matches 83; Conservative 49; Mismatches 94; Indels 13; Gaps 8;

QY 13 TGXEYFRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGXDXTAAIDV 72
Db 10 TSSYGVFISNLRKALPNERKLYDPLLR--SSLPNGS--QRYALHILTNYADETISVAIDV 66
QY 73 TNXYVYVAYAGDOSYFURDA--PRGAETHLFTGTTRXSSLPFPXGSYXDLERYAGH--RDQIF 130
Db 67 TNVYIMGYRAGDTSYFFNEASATEAAKXVKDAMRKVTLTPYSGNYERLQTAAGKIRENIF 126
QY 131 LGIXQLIOSVXALRXPGGSTRXQARSILILIOISEAARENPILWRXRXQXINSXSFPLD 190
Db 127 LGLPALDSAITTLFYNNANS--AASALMLVLIQSTSEARARYKFEQIQIGKRVDK--TFPLS 182
QY 191 XYMLETSGOOSTQVQ--HSTDGVFNPNXRLAIXXGNFVTLXNVXRX--VIAISLAIML 245
Db 183 LAIISLENSWSALSQKIQIASTNNGQFESPVLINAQORVITNVDAGVVTSNIAILL 241

RESULT 6

US-09-792-793A-34

; Sequence 34, Application US/09792793A

; Patent No. US20020168370A1

; GENERAL INFORMATION:

; APPLICANT: McDonald, John R.

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY

; TISSUE DAMAGE AND DISORDERS

; FILE REFERENCE: 25020-601D

; CURRENT APPLICATION NUMBER: US/09/792,793A

; CURRENT FILING DATE: 2001-02-22

; NUMBER OF SEQ ID NOS: 93

; SOFTWARE: Patent in Ver. 2.0

; SEQ ID NO 34

; LENGTH: 247

; TYPE: PRT
; ORGANISM: Bryonia dioica
US-09-792-793A-34

Query Match 10.7%; Score 280; DB 9; Length 247;
Best Local Similarity 32.0%; Pred. No. 4.1e-21;
Matches 79; Conservative 52; Mismatches 98; Indels 18; Gaps

QY 7 RVTHQTGXBYFRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGXD 66
Db 5 RLSGATT--TSYGVFIKNLREALPYERKVNIPILRSS---ISSGRYTLULLHLTNYADETI 60
QY 67 TAAIDVTNXYVAYAGDOSYFURDA--PRGAETHLFTGTTRXSSLPFPXGSYXDLERYAGH 125
Db 61 SVAVDVNTVYIMGYRAGDVSYFFNEASATEAAKXVKDAMRKVTLTPYSGNYERLQTAAGK 120
QY 126 -RDQIPGLIXQLIOSVXALRXPGGSTRXQARSILILIOISEAARENPILWRXRXQXINS 184
Db 121 IRENIPGLPALDSAITTLYYTASS--AASALLVLIQSTSEARARYKFEQIQIGKRVDK- 177
QY 185 XSLPDXMYMLETSGOOSTQVQ--HSTDGVFNPNXRLAIXXGN---FVTLXNVXVVI 238
Db 178 -TFPLSLATISLENNWSALSQKIQIASTNNGQFESP--VVLIDGNQORVITNASARVVT 234
QY 239 ASLAIML 245
Db 235 SNIAILL 241

RESULT 7

US-09-765-527-251

; Sequence 251, Application US/09765527

; Patent No. US20020006638A1

; GENERAL INFORMATION:

; APPLICANT: Better, Marc D.

; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; Fusion Proteins and BPI-Derived Peptides

; NUMBER OF SEQUENCES: 265

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

; STREET: 6300 Sears Tower, 233 South Wacker Drive

; CITY: Chicago

; STATE: Illinois

; COUNTRY: United States of America

; ZIP: 60606-6402

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/765,527

; FILING DATE: 18-Jan-2001

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/621,803

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Borun, Michael F.

; REGISTRATION NUMBER: 25,447

; REFERENCE/DOCKET NUMBER: 27129/33199

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 312/474-6300

; TELEFAX: 312/474-0448

; TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 251:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 332 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; SEQUENCE DESCRIPTION: SEQ ID NO: 251:

US-09-765-527-251

us-09-601-667c-1.rapb

Sat Mar 22 10:41:04 2003

Query Match 10.4%; Score 271.5; DB 10; Length 332;
Best Local Similarity 30.1%; Pred. No. 4.7e-20;
Matches 88; Conservative 48; Mismatches 133; Indels 23; Gaps 9;

QY 8 VTHOTTGXEYFRFILLRDY---VSSGSFSENEIPLLRQSTIPVSDAQRFLVELTNOGX 64
DB 5 VSFSTKGATYIYVNFELNLRVULKPEGNSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 62
QY 65 SXTAIDVTNXVYVAYQAGDSYFLRDAPRGAETHLFTGTTXSSLPFPXGSDYDLERYAG 124
DB 63 LAETIAIDVTSVYVGVQVRNRSYFFKADPAAYEGLEFKNTIK-TRLHFGGTPSLEGEKA 121
QY 125 HRDQIPLGIXQL---TQSVVALRXPGGSTRXQARSILILIQMISEAARF---NPILMRX 177
DB 122 YRETTDLGIEPLRIGIKKLDENADINYPKTEIASSLLVVIQWSEAAARFTFIENQIRNRF 181
QY 178 ROXINSXGFLPDXYMLETSGQOSTQVQHS-TDGVFNPNPXRRLAIXXGNFVTLXNVRX 236
DB 182 QQRIR-----PANNTISLENKWKGLSFQIRTSANGMFSEAVELERANGKYYVTVADQ 235
QY 237 VIASLAIMLFV 247
DB 236 VKPKIALLKVF 246

RESULT 9
US-09-765-527-259
; Sequence 259, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 259:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 293 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 259:
US-09-765-527-259
Query Match 10.1%; Score 265; DB 10; Length 293;
Best Local Similarity 32.7%; Pred. No. 1.9e-19;
Matches 82; Conservative 36; Mismatches 113; Indels 20; Gaps 8

QY 8 VTHOTTGXEYFRFILLRDY---VSSGSFSENEIPLLRQSTIPVSDAQRFLVELTNOGX 64
DB 27 VSFSTKGATYIYVNFELNLRVULKPEGNSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84

Query Match 10.2%; Score 268; DB 10; Length 251;
Best Local Similarity 33.1%; Pred. No. 7.4e-20;
Matches 83; Conservative 35; Mismatches 113; Indels 20; Gaps 7;

QY 8 VTHOTTGXEYFRFILLRDY---VSSGSFSENEIPLLRQSTIPVSDAQRFLVELTNOGX 64
DB 27 VSFSTKGATYIYVNFELNLRVULKPEGNSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84

us-09-601-667c-1.rapb

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QY 125 HRDQIPLGIXQL---IQSVXALRXPFGSTRQOARSILILIQMISEAARF---NPILWRX 177
 Db 144 YRETTDLGIEPLRIGIKKLDENADINYPKTEIASLLVVIQWSEAAFTFIENQIRNNF 203
 QY 178 ROXINSXGSLPDXMYMLETSSWGQOSTQVQHS-TDGVFNNPXRLAIXXGNFVTLXNVRX 236
 Db 204 QQRIR-----PANNTISLENKWKGLSFQIRTSGANGMFESEAVELELANGKKYYVTVADQ 257
 QY 237 VIASLAIMLFV 247
 Db 258 VKPKIALLKFEV 268

RESULT 11
 US-09-792-793A-36
 ; Sequence 36, Application US/09792793A
 ; Patent No. US20020168370A1
 ; GENERAL INFORMATION:
 ; APPLICANT: McDonald, John R.
 ; APPLICANT: Coggin, Philip
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
 ; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
 ; FILE REFERENCE: 25020-601D
 ; CURRENT APPLICATION NUMBER: US/09/792,793A
 ; CURRENT FILING DATE: 2001-02-22
 ; NUMBER OF SEQ ID NOS: 93
 ; SOFTWARE: Patent In Ver. 2.0
 ; SEQ ID NO 36
 ; LENGTH: 250
 ; TYPE: PRT
 ; ORGANISM: Momordica charantia
 ; US-09-792-793A-36

Query Match 8.8%; Score 229; DB 9; Length 250;
 Best Local Similarity 30.5%; Pred. No. 8.1e-16;
 Matches 67; Conservative 30; Mismatches 89; Indels 34; Gaps 6;
 QY 6 LRVTHTTQXEFRTILRLDYVSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGKDS 65
 Db 10 LDNNPT---YLSFTINRTKVADECTI-----QKISKTFTQVSYDILVSSSTOK 61
 QY 66 XTAAIDVTNXYVAY-----QAGQSYFLRDAAPRGAETHLFTGTTRXS---SLPFXGSGYXDL 119
 Db 62 ITLADMDLYVLGYSDIANNKGRAFFKDVTEAVANNFPFGATGNRIKLFTGSGYGL 121
 QY 120 ERVAGHRDQIPGIXQLIQSVXALRXPFGSTRQOARSILILIQMISEAARFNPILWRXQ 179
 Db 122 EXKGLFKDNPGLGIFRLNSIVNYKAGDVKKQAKFFLLAIQWSEAAARFYI----- 175
 QY 180 XINSXGSLP-----DXYMLETSSWGQOSTQVQHS 210
 Db 176 -----SDKIPSEKYEVTVDYMTALENNWAKLSTAVYNS 210

RESULT 12
 US-09-978-274A-4
 ; Sequence 4, Application US/09978274A
 ; Patent No. US20020116737A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Christopher
 ; APPLICANT: McPherson, Michael
 ; APPLICANT: Atkinson, Howard
 ; APPLICANT: Neelam, Anil
 ; TITLE OF INVENTION: PLANT CELL DEATH SYSTEM
 ; FILE REFERENCE: 9341-028
 ; CURRENT APPLICATION NUMBER: US/09/978,274A
 ; CURRENT FILING DATE: 2001-10-15
 ; PRIOR APPLICATION NUMBER: 0025225.4
 ; PRIOR FILING DATE: 2000-10-14
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: Patent In version 3.1
 ; SEQ ID NO 4
 ; LENGTH: 263

QY 65 SXTAAIDVTNXYVAYQAGDOSYFLRDAAPRGAETHLFTGTTRXSILIPXGSGYXDLERYAG 124
 Db 85 LAETADVTNXYVAYQAGDOSYFLRDAAPRGAETHLFTGTTRXSILIPXGSGYXDLERYAG 124
 QY 125 HRDQIPLGIXQL---IQSVXALRXPFGSTRQOARSILILIQMISEAARF---NPILWRX 177
 Db 144 YRETTDLGIEPLRIGIKKLDENADINYPKTEIASLLVVIQWSEAAFTFIENQIRNNF 203
 QY 178 ROXINSXGSLPDXMYMLETSSWGQOSTQVQHS-TDGVFNNPXRLAIXXGNFVTLXNVRX 236
 Db 204 QQRIR-----PANNTISLENKWKGLSFQIRTSGANGMFESEAVELELANGKKYYVTVADQ 257
 QY 237 VIASLAIMLFV 247
 Db 258 VKPKIALLKFEV 268

RESULT 10
 US-09-765-527-253
 ; Sequence 253, Application US/09765527
 ; Patent No. US20020006638A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Better, Marc D.
 ; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
 ; TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
 ; NUMBER OF SEQUENCES: 265
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 ; STREET: 6300 Sears Tower, 233 South Wacker Drive
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: United States of America
 ; ZIP: 60606-6402
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/765,527
 ; FILING DATE: 18-Jan-2001
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/621,803
 ; FILING DATE: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Borun, Michael F.
 ; REGISTRATION NUMBER: 25,447
 ; REFERENCE/DOCKET NUMBER: 27129/33199
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312/474-6300
 ; TELEFAX: 312/474-0448
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 253:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 309 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 253:
 ; US-09-765-527-253

Query Match 10.1%; Score 265; DB 10; Length 309;
 Best Local Similarity 32.7%; Pred. No. 2e-19;
 Matches 82; Conservative 36; Mismatches 113; Indels 20; Gaps 7;
 QY 8 VTHQTTQXEFRTILRLDY---VSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGXD 64
 Db 27 VSFSTKGATYTYVNFNLRVRLKPEGNHSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84
 QY 65 SXTAAIDVTNXYVAYQAGDOSYFLRDAAPRGAETHLFTGTTRXSILIPXGSGYXDLERYAG 124
 Db 85 LAETADVTNXYVAYQAGDOSYFLRDAAPRGAETHLFTGTTRXSILIPXGSGYXDLERYAG 124

Query Match 10.1%; Score 265; DB 10; Length 309;
 Best Local Similarity 32.7%; Pred. No. 2e-19;
 Matches 82; Conservative 36; Mismatches 113; Indels 20; Gaps 7;
 QY 8 VTHQTTQXEFRTILRLDY---VSSGFSNEIPLLRQSTIPVSDAQRFLVLTNQGXD 64
 Db 27 VSFSTKGATYTYVNFNLRVRLKPEGNHSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84
 QY 65 SXTAAIDVTNXYVAYQAGDOSYFLRDAAPRGAETHLFTGTTRXSILIPXGSGYXDLERYAG 124
 Db 85 LAETADVTNXYVAYQAGDOSYFLRDAAPRGAETHLFTGTTRXSILIPXGSGYXDLERYAG 124

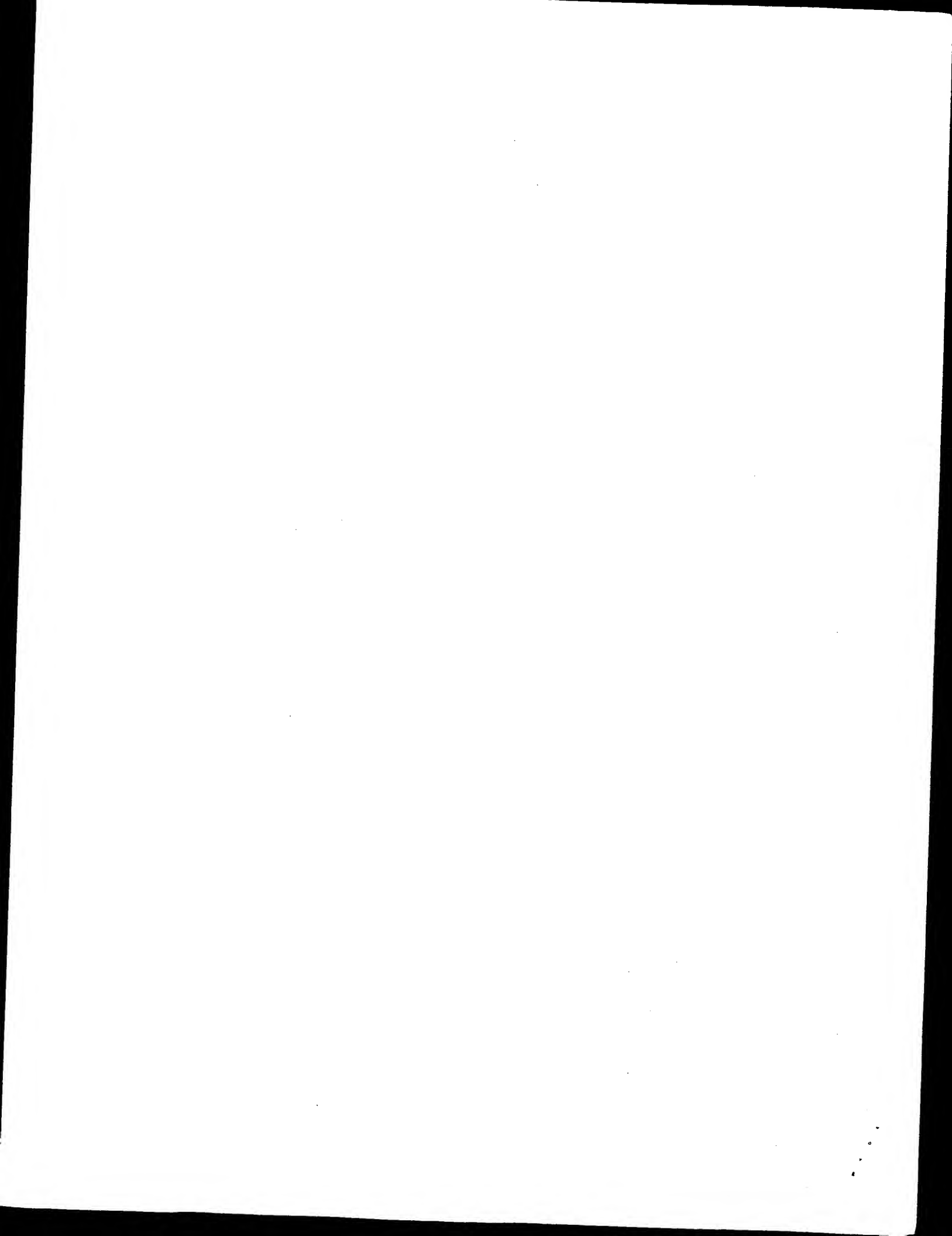
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Best Local Similarity	23.8%	Pred No. 4.2e-09;		
Matches 62; Conservative	42;	Mismatches 112;	Indels 45;	Gaps 9;
QY	16	EYFRFTHLRDVSSGSFNIPILRQSTIPV----	SDAQRFVLVELTNOGXDXTAAID	71
Db	39	KYAIFMESLRNQKD-----PKLCYGIEMLPDNTSTPKYLLVKLGQANKLTIITLMIR	91	
QY	72	VTNXYVVAYAGDOSYFLRLDAPRG--AETHLF--TGTRXS-----SLP	111	
Db	92	RNNLYVMGYSGS-----DPFNGKCRYHFINDITSTERTDVENTLCSSSSRVAMSI	142	
QY	112	FXGSYXDLERYA--GHRDQPLGTQLQIQSVKALXPGG-STRXQRSIIILIQMISEAA	168	
Db	143	YNSLYPTMEKAEVNSRNQVLGTLQLSSDIGIKISGVDSFPVKTEAFFLLVAIQWSEAA	202	
QY	169	RENPILRWXEQXINSYGXFPLPDXYMLETSWSGQQSTQVGHSTGDGVNPNFXRIAXKNF	228	
Db	203	RFKYI--ENOVKTNFNRAFPDPKVINLEEKWKIGSAIHNAKNGALPKPELVLVDAGTYK	260	
QY	229	VTUXNVRRXVIASLAIMLVFCVG	249	

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Query Match          5.9%; Score 155; DB 9; Length 275;
Best Local Similarity 26.0%; Pred No: 4.2e-08;
Matches 75; Conservative 45; Mismatches 116; Indels 52; Gaps 14;
QY      4 LRURVTHQTTCGXEFYRPTITLLRDVVSSGSGSFNEIPLLKQ-----STIFVSDAQRFLVLVEL 58
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Sat Mar 22 10:41:04 2003

Ddb		4	ITLDVNPTAG-QYSSSFVDKIRNVKD-----PNLKYGTTDIAVIGPPSKEKFLRINF	55
Qy		59	-TNOGXSTXAAIDVTNXVVAOAGD-----QSYFLRDAPRAE-THLUF--TGTRXSS	109
Ddb		56	QSSRGTVSLGKKD--NLVVAYLVAMDNTNVRAYFRSEITSASTALFPFATTANOKA	113
Qy		110	LPFXXGSYXDIERYA-----GHRDQIPGLIQTOLTSUXALFXPGSGTXQAASILLIQM	163
Ddb		114	LEYTEDYSIEKNAQITQGDSQSKEJLGILDLSTSMFAVNNKARVVUKDEARFLLIAQM	173
Qy		164	ISEAARENPILRXROI---NSGXSFDPDXMYLETSWGQQSTQVO-HSTDGVHNPX	219
Ddb		174	TAEARF-----RYQLNVIKFNPFNSENKVIQFEYNWKKISTATYGDAKNVFNKY	228
Qy		220	RLAIXGNFVTLXNVRXIASLAIMLFVCGERPSSDV-----RYWPL	262
Ddb		229	DFG-----FGKVQRQVKLOLQGLLMYLGLKPKSSNEANSIVRHGYPL	268

Search completed: March 22, 2003, 10:37:10
Job time : 22.7284 secs



GenCore version 5.1.4.p5.4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 8.96011 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-2
Perfect score: 1213
Sequence: 1 YERLRLVTHQTTCXEYFRF.....XVIASLAIMLFVCGERPSS 255

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1155.5	95.3	252	10	US-09-347-064-8
2	1151.5	94.9	252	10	US-09-347-064-2
3	308.5	25.4	247	9	US-09-792-793A-39
4	280	23.1	247	9	US-09-792-793A-34
5	268	22.1	251	10	US-09-765-527-247
6	265	21.8	293	10	US-09-765-527-253
7	265	21.8	309	10	US-09-765-527-259
8	265	21.8	332	10	US-09-765-527-251
9	229	18.9	250	9	US-09-792-793A-36
10	165.5	13.6	263	10	US-09-978-274A-4
11	165.5	13.6	314	10	US-09-978-274A-2
12	139.5	12.7	254	9	US-09-792-793A-85
13	133.5	12.7	275	9	US-09-792-793A-35
14	153.5	12.7	327	9	US-09-792-793A-79
15	153.5	12.7	330	9	US-09-792-793A-82
16	153.5	12.7	332	9	US-09-792-793A-73
17	153.5	12.7	332	9	US-09-792-793A-76
18	119.5	9.9	323	9	US-09-792-793A-80
19	9.5	9.9	325	9	US-09-792-793A-81

20	119	9.8	110	10	US-09-978-274A-8	Sequence 8, Appli
21	114.5	9.4	325	9	US-09-792-793A-74	Sequence 74, Appl
22	114.5	9.4	327	9	US-09-792-793A-75	Sequence 75, Appl
23	113.5	9.4	247	9	US-09-792-793A-83	Sequence 83, Appl
24	113.5	9.4	249	9	US-09-792-793A-84	Sequence 84, Appl
25	113.5	9.4	320	9	US-09-792-793A-77	Sequence 77, Appl
26	113.5	9.4	322	9	US-09-792-793A-78	Sequence 78, Appl
27	113.5	9.4	325	9	US-09-792-793A-71	Sequence 71, Appl
28	113.5	9.4	326	9	US-09-334-477-37	Sequence 37, Appl
29	113.5	9.4	327	9	US-09-792-793A-72	Sequence 72, Appl
30	113.5	9.4	690	10	US-09-334-477-47	Sequence 47, Appl
31	113.5	9.4	708	10	US-09-334-477-33	Sequence 33, Appl
32	113	9.3	293	9	US-09-792-793A-37	Sequence 37, Appl
33	113	9.3	315	10	US-09-334-477-2	Sequence 2, Appli
34	113	9.3	318	10	US-09-334-477-6	Sequence 6, Appli
35	113	9.3	323	10	US-09-334-477-21	Sequence 21, Appl
36	113	9.3	326	10	US-09-334-477-25	Sequence 25, Appl
37	112.5	9.3	319	9	US-09-792-793A-38	Sequence 38, Appl
38	112.5	9.3	319	9	US-09-870-759-28	Sequence 28, Appl
39	112	9.2	329	10	US-09-334-477-39	Sequence 39, Appl
40	112	9.2	711	10	US-09-334-477-35	Sequence 35, Appl
41	111.5	9.2	694	10	US-09-334-477-49	Sequence 49, Appl
42	72	5.9	582	10	US-09-815-242-14006	Sequence 14006, A
43	69	5.7	400	10	US-09-895-211-4	Sequence 4, Appli
44	69	5.7	400	10	US-09-895-211-6	Sequence 6, Appli
45	69	5.7	426	9	US-10-101-464A-124	Sequence 124, App

ALIGNMENTS

RESULT 1

US-09-347-064-8
; Sequence 8, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-8

Query Match 95.3%; Score 1155.5; DB 10; Length 252;
Best Local Similarity 91.7%; Pred No. 8.7e-127;
Matches 232; Conservative 1; Mismatches 19; Indels 1; Gaps 1;

QY	1	YERLRLVTHQTTCXEYFRFTLLRDYVSSGSFNSFNEIPLLRQSTIPVSDAQRFLVELTN	60
DB	1	YERLRLVTHQTTCXEYFRFTLLRDYVSSGSFNSFNEIPLLRQSTIPVSDAQRFLVELTN	60
QY	61	QGXDSKTAADVTNXYVAVYQAGDSYFLRDAPGAETHLFTGTTXSLPFXGSYXDL	120
DB	61	QGXDSKTAADVTNXYVAVYQAGDSYFLRDAPGAETHLFTGTTXSLPFXGSYXDL	120
QY	121	RYAGHRDQPLGLXQLIQSVLXRXPGSTRXQARSILLIOMISEAARENPILWRXQX	180
DB	120	RYAGHRDQPLGLXQLIQSVLXRXPGSTRXQARSILLIOMISEAARENPILWRXQX	180

us-09-601-667c-2.rapb

at Mar 22 10:41:15 2003

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 39
LENGTH: 247
TYPE: PRT
ORGANISM: Trichosantheus kirilowii
US-09-792-793A-39

Query Match 25.4%; Score 308.5; DB 9; Length 247;
Best Local Similarity 34.7%; Pred. No. 4.1e-28;
Matches 83; Conservative 49; Mismatches 94; Indels 13; Gaps 8;

RESULT 2

US-09-347-064-2
Sequence 2, Application US/09347064A
Patent No. US20020045208A1

GENERAL INFORMATION:

APPLICANT: Eck, Jurgen
APPLICANT: Schmidt, Arno
TITLE OF INVENTION: Recombinant Fusion Proteins Based on
TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
TITLE OF INVENTION: album

FILE REFERENCE: 09282-5
CURRENT APPLICATION NUMBER: US/09/347,064A

CURRENT FILING DATE: 1999-07-02

EARLIER APPLICATION NUMBER: PCT/EP98/00009

EARLIER FILING DATE: 1998-01-02

EARLIER APPLICATION NUMBER: EP 97 10 0012.0

EARLIER FILING DATE: 1997-01-02

NUMBER OF SEQ ID NOS: 38

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 252

TYPE: PRT

ORGANISM: Viscum album

US-09-347-064-2

Query Match 94.9%; Score 1151.5; DB 10; Length 252;
Best Local Similarity 91.7%; Pred. No. 2.5e-126; Indels 1; Gaps 1;
Matches 231; Conservative 1; Mismatches 19;

QY 1 YERLRVTHQTTCXEFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVLTN 60

DB 2 YERLRVTHQTTCXEFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVLTN 61

QY 61 QGXDXTAAIDVTNXYVAYAGDOSYFLRDA PRGAETHLFTGTTRXSLLPFXGSXDLE 120

DB 62 QGDSITAAIDVTNXYVAYAGDOSYFLRDA PRGAETHLFTGTTRXSLLPFXGSYDLE 120

QY 121 RYAGHRDQIPLGIXQLIQSVXALRPGGSTRXOARSILILIQMISEAARENPILMRXROX 180

DB 121 RYAGHRDQIPLGIXQLIQSVXALRPGGSTRXOARSILILIQMISEAARENPILMRARQY 180

QY 181 INSGXSLPDXXYMLELETSWGQOSTQVHSTGDFVFNPRXLAIXXGNFVTLXNVXVIA 240

DB 181 INSGASFLPDVYMLELETSWGQOSTQVHSTGDFVFNPRXLAIXXGNFVTLXNVXVIA 240

QY 241 LAIMLFVCGERP 252

DB 241 LAIMLFVCGERP 252

RESULT 3

US-09-792-793A-39
Sequence 39, Application US/09792793A
Patent No. US20020168370A1

GENERAL INFORMATION:

APPLICANT: McDonald, John R.

APPLICANT: Coggin, Philip

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS

FILE REFERENCE: 25020-601D

CURRENT APPLICATION NUMBER: US/09/792,793A

CURRENT FILING DATE: 2001-02-22

NUMBER OF SEQ ID NOS: 93

SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 39
LENGTH: 247
TYPE: PRT
ORGANISM: Trichosantheus kirilowii
US-09-792-793A-39

Query Match 25.4%; Score 308.5; DB 9; Length 247;
Best Local Similarity 34.7%; Pred. No. 4.1e-28;
Matches 83; Conservative 49; Mismatches 94; Indels 13; Gaps 8;

RESULT 4

US-09-792-793A-34
Sequence 34, Application US/09792793A
Patent No. US20020168370A1

GENERAL INFORMATION:

APPLICANT: McDonald, John R.

APPLICANT: Coggin, Philip

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE

TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS

FILE REFERENCE: 25020-601D

CURRENT APPLICATION NUMBER: US/09/792,793A

CURRENT FILING DATE: 2001-02-22

NUMBER OF SEQ ID NOS: 93

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 34

LENGTH: 247

TYPE: PRT

ORGANISM: Bryonia dioica

US-09-792-793A-34

Query Match 23.1%; Score 280; DB 9; Length 247;
Best Local Similarity 32.0%; Pred. No. 8.5e-25;
Matches 79; Conservative 52; Mismatches 98; Indels 18; Gaps 9;

QY 7 RVTHQTTCXEFRTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVLTNQCXDSX 66

DB 5 RLSGATT-TSGVFIKNLREALPYERKVNIPLLRSS---ISGSGRYTLHLTNYADEFI 60

QY 67 TAAIDVTNXYVAYAGDOSYFLRDA-PRGAETHLFTGTTRXSLLPFXGSYXDLYERYAGH 125

DB 61 SVAVDVTNXYVAYAGDOSYFLRDA-PRGAETHLFTGTTRXSLLPFXGSYXDLYERYAGH 120

QY 126 -RDOQIPLGIXQLIQSVXALRPGGSTRXOARSILILIQMISEAARENPILMRXROXINS 184

DB 121 TRENIPGLIPALDSAITLLYYVTASS--AASALLVLIQSTAESARYKFIEQOIGKRVK- 177

QY 185 XSFLPDXYMLELETSWGQOSTQVHSTGDFVFNPRXLAIXXGNFVTLXNVXVIA 238

DB 178 -TFLPSLATISLENNWSALSQIQIASTNNQFESP--VVLIDGNQORVITNASARVVT 234

QY 239 ASLAIML 245

DB 235 SNIALLL 241

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RESULT 5
US-09-765-527-247
; Sequence 247, Application US/09765527
; Patent No. US2002006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; ; Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765.527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 247:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 251 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 247:
US-09-765-527-247

Query Match          22.1%; Score 268; DB 10; Length 251;
Best Local Similarity 33.1%; Pred. No. 2.2e-23;
Matches 83; Conservative 35; Mismatches 113; Indels 20; Gaps

QY 8 VTHQTGXGYFRFITLRDY---VSSGSFSENPILRQSTIPVSDAQRFVLVELTNOGXD 64
Db 5 VSFSTKGATYIVYFNFLNEURLVKLPBGNSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 62
QY 65 SXTAAIDVTNXYVAVQAGDSQFLRDPAPGATHLFTGTTXRASSLPFGVSYXDLBRYAG 124
Db 63 LAELADVTISYVGVQVRNRSYFFKDDAPDAAYEGVFKNITK-TRLHFGSVPSLEGEKA 121
QY 125 HRDQIPLIGXQL---IQSVXALRXPGGSTRXQARSILILIQMISEAARF---NPILWRX 177
Db 122 YRETTDLGIEPLRIGIKKLDENAIDNYKPEIASSLLVVIQMVSEARFTTFENQIRNPF 181
QY 178 ROXINGXSFPLPDXYMLELETSWGQSTQVQHS--TGCVFNPNXRLLAIXXGNFVTLKNVX 236
Db 182 QQRIR-----PANNTISLKNWGLSFQIRTSGANGMFSEAVELFRANGKYYVTVADQ 235
QY 237 VIASLAIMLVF 247
Db 236 VKPKIALLKVF 246

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RESULT 6
US-09-765-527-259
; Sequence 259, Application US/09765527
; Patent No. US20020006638A1

```

1 GENERAL INFORMATION:
2 APPLICANT: Better, Marc D.
3 TITLE OF INVENTION: Methods for Recombinant Microbial Production of
4 Fusion Proteins and BPI-Derived Peptides
5
6 NUMBER OF SEQUENCES: 265
7 CORRESPONDENCE ADDRESS:
8 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
9 STREET: 6300 Sears Tower, 233 South Wacker Drive
10 CITY: Chicago
11 STATE: Illinois
12 COUNTRY: United States of America
13 ZIP: 60606-6402
14
15 COMPUTER READABLE FORM:
16 MEDIUM TYPE: Floppy disk
17 COMPUTER: IBM PC compatible
18 OPERATING SYSTEM: PC-DOS/MS-DOS
19 SOFTWARE: PatentIn Release #1.0, Version #1.25
20
21 CURRENT APPLICATION DATA:
22 APPLICATION NUMBER: US/09/765,527
23 FILING DATE: 18-Jan-2001
24 PRIOR APPLICATION DATA:
25 APPLICATION NUMBER: 08/621,803
26 FILING DATE: <Unknown>
27 ATTORNEY/AGENT INFORMATION:
28 NAME: Borun, Michael F.
29 REGISTRATION NUMBER: 25,447
30 REFERENCE/DOCKET NUMBER: 27129/33199
31
32 TELECOMMUNICATION INFORMATION:
33 TELEPHONE: 312/474-6300
34 TELEFAX: 312/474-0448
35 TELEX: 25-3856
36
37 INFORMATION FOR SEQ ID NO: 259:
38 SEQUENCE CHARACTERISTICS:
39 LENGTH: 293 amino acids
40 TYPE: amino acid
41 TOPOLOGY: linear
42
43 MOLECULE TYPE: protein
44 SEQUENCE DESCRIPTION: SEQ ID NO: 259:
45
46 US-09-765-527-259

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Query Match	21.8%;	Score 265;	DB 10;	Length 293;	
Best Local Similarity	32.7%;	Pred. No. 6e-23;			
Matches	82;	Conservative 36;	Mismatches 113;	Indels 20;	Gaps
QY	8	VTHQTGXCYEPRITLLRDY----	VSSGSTSNEIPLLRQSTIPVSDAQRFLVVELTNGQXD	64	
Db	27	VSFSTGATYITVWNFLNBLRVKLKPEGNSHGITPLLRKCC--	DDPGKCFVLVALSNDNGQ	84	
QY	65	SXTAAIDVTNVXVWYQAGQGVSLFDRPARGAETHLFTGTTXRXSSLPFGXGVXDLYERAG	124		
Db	85	LAELADVTISVYVVGVRNRSYFFKADPAAYEGLFKNTIK-TRLHFGGTYPVSEGEKA	143		
QY	125	HRDQIPLGIXQL----IQSVKALRXPGGSTRXQARSILILIOIMISAARF----	NPLWRX	177	
Db	144	YRETTDLGIEPLRIGIKKLDENAIDNYKETETASSLVLVQIWVSEAARFTFTENQIRNNF	203		
QY	178	ROXINGXGFLDPDXMYMLETSGWQOSTQVQHS--TDGVFNPNPKRAIXXGNFVTLKNVRX	236		
Db	204	QQRIR-----PANNTISLENKWKGLSFQIRTSGANGMFESEAVELERANGKKYVYTAUDQ	257		
QY	237	VTASLAIMLVFV	247		
Db	258	VRPKIALLKVF	268		

```

RESULT 7
US-09-765-527-253
; Sequence 253, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; Fusion Proteins and BPI-Derived Peptides
;

```


SEQ ID NO 79
LENGTH: 327
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
OTHER INFORMATION: 1-Beta-AM-SAPORIN
US-09-792-793A-79

Query Match 12.7% Score 153.5; DB 9; Length 327;
Best Local Similarity 27.4%; Pred. No. 6.7e-10;
Matches 65; Conservative 41; Mismatches 92; Indels 39; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
Db 5 ITLDLVNPTAG-QYSSFVDKIRNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 56
QY 59 -TNOGXDSXTAAIDVTNXYVAYQAGD-----QSYFLRDAPRGAE--THLF--TGTRXSS 109
Db 57 QSSRGTVSLGLKRD--NLYVWAYLAMNTNVRAYFRSEITSAESTALFPEATANOKA 114
QY 110 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIOSVXALRXPGGSTRXQARSILILIQM 163
Db 115 LEYTEDYQSIENKNAQITQGDQSRKELGIDLLSTSMKAVNKKARVVKDEARFLLIAIQM 174
QY 164 ISEAAARFNPILWRXRXQXI---NSGXSFLPDXYMLETSGQOSTQVQ--HSTDGVFN 216
Db 175 TAEAAARF-----RYIQNLVKNFKNFNSKNVQIFEVNWKKISTAIYGDKNGVFN 226

RESULT 13
US-09-792-793A-35
Sequence 35, Application US/09792793A
Patent No. US20020168370A1
GENERAL INFORMATION:
APPLICANT: McDonald, John R.
APPLICANT: Coggin, Philip
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
FILE REFERENCE: 25020-601D
CURRENT APPLICATION NUMBER: US/09/792,793A
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 93
SOFTWARE: Patent in Ver. 2.0
SEQ ID NO 35
LENGTH: 275
TYPE: PRT
ORGANISM: Saponaria officinalis
US-09-792-793A-35

Query Match 12.7% Score 153.5; DB 9; Length 275;
Best Local Similarity 27.4%; Pred. No. 5.4e-10;
Matches 65; Conservative 41; Mismatches 92; Indels 39; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
Db 4 ITLDLVNPTAG-QYSSFVDKIRNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 55
QY 59 -TNOGXDSXTAAIDVTNXYVAYQAGD-----QSYFLRDAPRGAE--THLF--TGTRXSS 109
Db 56 QSSRGTVSLGLKRD--NLYVWAYLAMNTNVRAYFRSEITSAESTALFPEATANOKA 113
QY 110 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIOSVXALRXPGGSTRXQARSILILIQM 163
Db 114 LEYTEDYQSIENKNAQITQGDQSRKELGIDLLSTSMKAVNKKARVVKDEARFLLIAIQM 173
QY 164 ISEAAARFNPILWRXRXQXI---NSGXSFLPDXYMLETSGQOSTQVQ--HSTDGVFN 216
Db 174 TAEAAARF-----RYIQNLVKNFKNFNSKNVQIFEVNWKKISTAIYGDKNGVFN 225

RESULT 14
US-09-792-793A-79
Sequence 79, Application US/09792793A
Patent No. US20020168370A1
GENERAL INFORMATION:
APPLICANT: McDonald, John R.
APPLICANT: Coggin, Philip
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
FILE REFERENCE: 25020-601D
CURRENT APPLICATION NUMBER: US/09/792,793A
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 93
SOFTWARE: Patent in Ver. 2.0

SEQ ID NO 79
LENGTH: 327
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
OTHER INFORMATION: 1-Beta-AM-SAPORIN
US-09-792-793A-79

Query Match 12.7% Score 153.5; DB 9; Length 327;
Best Local Similarity 27.4%; Pred. No. 6.7e-10;
Matches 65; Conservative 41; Mismatches 92; Indels 39; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
Db 5 ITLDLVNPTAG-QYSSFVDKIRNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 129
QY 59 -TNOGXDSXTAAIDVTNXYVAYQAGD-----QSYFLRDAPRGAE--THLF--TGTRXSS 109
Db 130 QSSRGTVSLGLKRD--NLYVWAYLAMNTNVRAYFRSEITSAESTALFPEATANOKA 187
QY 110 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIOSVXALRXPGGSTRXQARSILILIQM 163
Db 188 LEYTEDYQSIENKNAQITQGDQSRKELGIDLLSTSMKAVNKKARVVKDEARFLLIAIQM 247
QY 164 ISEAAARFNPILWRXRXQXI---NSGXSFLPDXYMLETSGQOSTQVQ--HSTDGVFN 216
Db 248 TAEAAARF-----RYIQNLVKNFKNFNSKNVQIFEVNWKKISTAIYGDKNGVFN 299

RESULT 15
US-09-792-793A-82
Sequence 82, Application US/09792793A
Patent No. US20020168370A1
GENERAL INFORMATION:
APPLICANT: McDonald, John R.
APPLICANT: Coggin, Philip
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE
TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
FILE REFERENCE: 25020-601D
CURRENT APPLICATION NUMBER: US/09/792,793A
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 93
SOFTWARE: Patent in Ver. 2.0
SEQ ID NO 82
LENGTH: 330
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
OTHER INFORMATION: EOTAXIN-AM-SAPORIN
US-09-792-793A-82

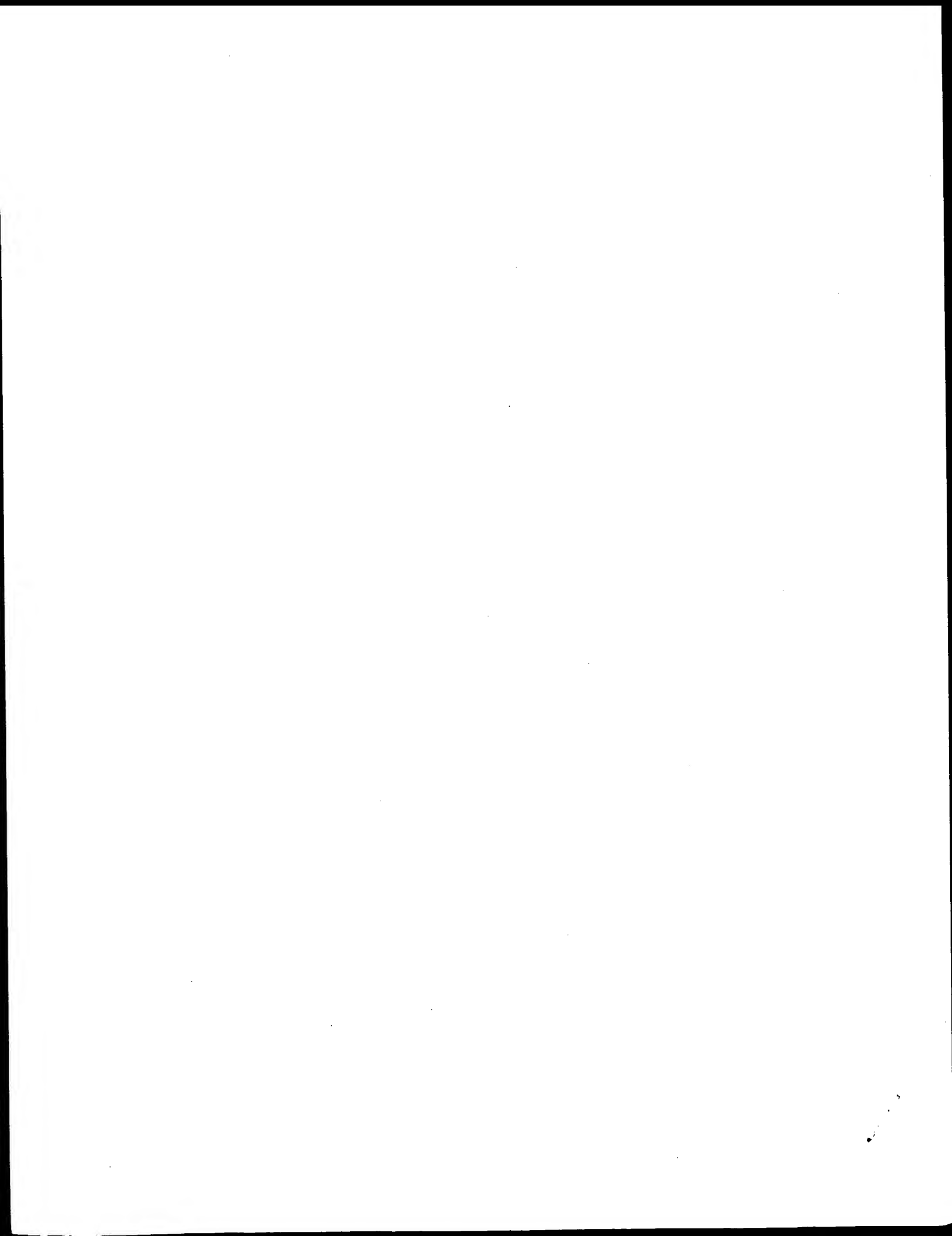
Query Match 12.7% Score 153.5; DB 9; Length 330;
Best Local Similarity 27.4%; Pred. No. 6.8e-10;
Matches 65; Conservative 41; Mismatches 92; Indels 39; Gaps 12;

QY 4 LRLRVTHQTGXEYFRFTLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFLVVEL 58
Db 81 ITLDLVNPTAG-QYSSFVDKIRNVKD-----PNLKYGGTDIAVIGPPSKEKFLRINF 132
QY 59 -TNOGXDSXTAAIDVTNXYVAYQAGD-----QSYFLRDAPRGAE--THLF--TGTRXSS 109
Db 133 QSSRGTVSLGLKRD--NLYVWAYLAMNTNVRAYFRSEITSAESTALFPEATANOKA 190
QY 110 LPFXGSYXDLERYA-----GHRDOIPLGIXQLIOSVXALRXPGGSTRXQARSILILIQM 163
Db 191 LEYTEDYQSIENKNAQITQGDQSRKELGIDLLSTSMKAVNKKARVVKDEARFLLIAIQM 250
QY 164 ISEAAARFNPILWRXRXQXI---NSGXSFLPDXYMLETSGQOSTQVQ--HSTDGVFN 216
Db 251 TAEAAARF-----RYIQNLVKNFKNFNSKNVQIFEVNWKKISTAIYGDKNGVFN 302

Sat Mar 22 10:41:15 2003

Search completed: March 22, 2003, 10:37:11
Job time : 9.96011 secs

us-09-601-667c-2.rapb



GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 9.27635 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-3

Perfect score: 1327

Sequence: 1 DDVTCASEPTVIRVGRXGM.....RRIIYPATGKPNQWLPVX 264

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
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15: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1267.5	95.5	263	10	US-09-347-064-10
2	1267.5	95.5	267	10	US-09-347-064-10
3	162	12.2	145	12	US-10-074-527-5
4	119.5	9.0	135	9	US-09-973-457-5
5	119.5	9.0	135	12	US-10-074-527-5
6	117.5	8.9	480	10	US-09-770-621-5
7	117.5	8.9	492	10	US-09-770-621-5
8	117.5	8.9	492	10	US-09-770-621-5
9	115.5	8.7	491	10	US-09-770-621-5
10	79	6.0	295	10	US-09-770-621-8
11	78	5.9	612	12	US-10-001-851-25
12	78	5.9	1781	9	US-09-995-749A-25
13	76	5.7	434	10	US-09-770-621-6
14	75.5	5.7	356	9	US-09-976-059-8
15	75.5	5.7	770	10	US-09-815-656-31
16	73.5	5.5	435	9	US-10-000-512-18
17	73.5	5.5	559	12	US-10-001-851-23
18	70.5	5.3	626	12	US-10-001-851-27
19	70	5.3	44	10	US-09-924-358-30

20	70	5.3	44	10	US-09-924-358-31	Sequence 31, Appl
21	70	5.3	44	10	US-09-924-358-32	Sequence 32, Appl
22	69.5	5.2	2353	10	US-09-797-862-33	Sequence 33, Appl
23	68.5	5.2	678	10	US-09-801-368-314	Sequence 314, Appl
24	68	5.1	846	10	US-09-815-242-13904	Sequence 13904, A
25	67.5	5.1	192	10	US-09-967-347-4	Sequence 4, Appl
26	67.5	5.1	425	9	US-09-813-398-32	Sequence 32, Appl
27	67	5.0	590	9	US-10-002-050-12	Sequence 12, Appl
28	67	5.0	590	9	US-10-002-304-12	Sequence 12, Appl
29	67	5.0	596	9	US-10-003-152-12	Sequence 12, Appl
30	67	5.0	596	9	US-10-002-050-14	Sequence 14, Appl
31	67	5.0	596	9	US-10-003-304-14	Sequence 14, Appl
32	67	5.0	624	9	US-10-002-050-22	Sequence 22, Appl
33	67	5.0	624	9	US-10-002-304-22	Sequence 22, Appl
34	67	5.0	624	12	US-10-003-152-22	Sequence 22, Appl
35	67	5.0	785	9	US-09-989-920-218	Sequence 218, Appl
36	67	5.0	833	9	US-10-149-819-4	Sequence 4, Appl
37	66.5	5.0	559	12	US-10-001-851-24	Sequence 24, Appl
38	66.5	5.0	579	12	US-10-001-851-29	Sequence 29, Appl
39	66.5	5.0	1295	9	US-09-738-626-6480	Sequence 6480, Ap
40	66.5	5.0	671	10	US-09-758-003-2	Sequence 2, Appl
41	66	5.0	671	10	US-09-862-027-29	Sequence 29, Appl
42	66	5.0	279	10	US-09-900-575-43	Sequence 43, Appl
43	65.5	4.9	332	9	US-09-964-899-7	Sequence 7, Appl
44	65.5	4.9	12	10	US-09-347-064-16	Sequence 16, Appl
45	65	4.9				

ALIGNMENTS

RESULT 1

US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1998-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-10

Query Match

Best Local Similarity 95.5%; Score 1267.5; DB 10; Length 263;
Matches 241; Conservative 1; Mismatches 20; Indels 1; Gaps 1;

QY	1	DDVTCASEPTVIRVGRXGMVDDVDDDFHGNQIQWPFKSNNDPNQLWTIKRDXTRS	60
DB	1	DDVTCASEPTVIRVGRNMCVDDVDDDFRDNQIQWPFKSNNDPNQLWTIKRDXTRS	60
QY	61	NGSCLTTTGYTAGVYVMIFDCNTAVREATVQIWNKGTIINPRSNLVLAASGIGKTTLT	120
DB	61	NGSCLTTTGYTAGVYVMIFDCNTAVREATVQIWNKGTIINPRSNLVLAASGIGKTTLT	120
QY	121	VOTLDYTLGQGNLAGNDTAPREVTIYGRDLCMESNXGSVWVETCXSSQXNOXXWALYGD	180
DB	121	VOTLDYTLGQGNLAGNDTAPREVTIYGRDLCMESNXGSVWVETCXSSQXNOXXWALYGD	180

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; CURRENT FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 60/269202
; PRIOR FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus
; US-10-074-527-5

Query Match          12.2%; Score 162;
Best Local Similarity 32.1%; Pred. No.
Matches 44; Conservative 18; Mismatch

QY 11 TVRIVGRXGMXVDV--RDDDFHGDGNOIQIQLWPSPKSNNG
Db 7 TILVNGSGRCLDVNSSESDGNOVQLWCHNSNNG

QY 65 LFTYGYTAGVYVIMFDCNTAVREATIWIQIWXNG
Db 67 LTVNANSPGSEVKLYQCDSATSDNQKWEIINLNDNG

QY 117 TLTIVOTLDTYLGQGWL 133
Db 127 TKLILYTCGGRNOOWL 143

RESULT 4
US-09-973-457-5
; Sequence 5, Application US/09973457
; Patent No. US2002016746A1
; GENERAL INFORMATION:
; APPLICANT: Kapeller-Libermann, Rosana
; TITLE OF INVENTION: 47174, A NOVEL HUMA
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: 10448-099001
; CURRENT APPLICATION NUMBER: US/09/973,4
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/238,849
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4
; SEQ ID NO 5
; LENGTH: 135
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence
; US-09-973-457-5

Query Match          9.0%; Score 11
Best Local Similarity 25.1%; Pred. No.
Matches 41; Conservative 18; Mismatch

QY 14 IVGRXGMXVDV--RDDDFHGDGNOIQIQLWPSPKS
Db 7 IGGTGLCLDVNGNSESKSDGNPVLQWLDCHG

QY 68 YGYTAGVYVIMFDCNTAVR--EATIWIQIWXN
Db 65 NG-----TVTLLSCDGTGKNDNQKWEIINLND

QY 126 YTLGQGWLAGNDTAPREVITY 146
Db 114 GNVQLWTCNGSDAPNQKWIF 134

RESULT 5
US-10-074-527-6
; Sequence 6, Application US/10074527

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Patent No. US20020142426A1
GENERAL INFORMATION:
APPLICANT: Olandt, Peter J.
APPLICANT: Meyers, Rachel E.
APPLICANT: Galvin, Katherine A.
APPLICANT: Millennium Pharmaceuticals Inc.
TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
FILE REFERENCE: MPI2001-018PNCPI(M)
CURRENT APPLICATION NUMBER: US/10/074,527
CURRENT FILING DATE: 2002-02-12
PRIOR APPLICATION NUMBER: 60/269202
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 135
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: consensus
US-10-074-527-6

Query Match 9.0%; Score 119.5; DB 12; Length 135;
Best Local Similarity 29.1%; Pred. No. 1.7e-05;
Matches 41; Conservative 18; Mismatches 61; Indels 21; Gaps
QY 14 IVGRXGMXVDV--RDDPHDGNQIQWPSKSNNDPNQLWTI---KRDXTIRNSGS-CLTT 67
Db 7 IGGTGLCLDVGNSKSDGNPNVQLWDPCHGGG--NQLWKLTYSNDSGAIKIRNSDLCLTV 64
QY 68 YGYTAGVYVVFDCNTAVR--EATIQWIXNGTINPRSNLVLAASSGKGTTLTVQTLTD 125
Db 65 NG-----TVLYSCDGTDKGNDNQWYKNGTIRNPK-NSKKGVDSG-----LCLDVKD 113
QY 126 YTLGQWLAGNDTAPREVTIY 146
Db 114 GNKVQLWTCNGSDAPNQWIF 134

RESULT 6
US-09-770-621-5
Sequence 5, Application US/09770621
Patent No. US20010024815A1
GENERAL INFORMATION:
APPLICANT: M ntyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
TITLE OF INVENTION: Production and Secretion of Proteins of
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 New York Ave., N.W. Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,621
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/590,563
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 amino acids
TYPE: amino acid
STRANDEDNESS: No. US20010024815A1 Relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: AM50
US-09-770-621-5
Query Match 8.9%; Score 117.5; DB 10; Length 480;
Best Local Similarity 31.4%; Pred. No. 0.00014;
Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;
QY 22 VDVRDDDFDGNQIQWPSKSNNDPNQLWTIKRDXTIRNSGS-CLTTYGYTAGVYVWIFD 80
Db 379 IDVPNGTADGTQVLYDCHSGS--NQWYITSSGEPFRIFGNKCLDAGSSNGAVVVIYS 436
QY 81 CNTAVREATIQWIXNGTINPRSNLVLAASSGKGTTLTVQ 122
Db 437 CWGGANQK--WELRADGTIVGVQSLCLDVGVTGNGTRLQ 476
RESULT 7
US-09-770-621-4
Sequence 4, Application US/09770621
Patent No. US20010024815A1
GENERAL INFORMATION:
APPLICANT: M ntyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
TITLE OF INVENTION: Production and Secretion of Proteins of
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 New York Ave., N.W. Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,621
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/590,563
FILING DATE:

us-09-601-667c-3.rapb

Sat Mar 22 10:41:20 2003

CLASSIFICATION:
 PRIOR APPLICATION DATA: US 08/282,001
 FILING DATE: 31-OCT-1994
 APPLICATION NUMBER: US 08/282,001
 FILING DATE: 29-JUL-1994
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 FILING DATE: 29-JUL-1994
 APPLICATION NUMBER: US 08/282,001
 FILING DATE: 29-JUL-1994
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bugalsky, Lawrence B.
 REGISTRATION NUMBER: 35,086
 REFERENCE/DOCKET NUMBER: 1050.0340003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 492 amino acids
 TYPE: amino acid
 STRANDEDNESS: No. US20010024815A1 Relevant
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: AM50
 US-09-770-621-7

Query Match 8.9%; Score 117.5; DB 10; Length 492;
 Best Local Similarity 31.4%; Pred. No. 0.00015; Indels 5; Gaps 3;
 Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 VDVRDDDFHGNQIQLPWPSKNNPNQNLTKIKRDXITIRSNGLS-CLTTYGYTAGVYVVMIFD 80
 DB 379 IDVPNGNTADGTQVQLYDCHSGS--NQQWYTSSEGFIFGNKCLDAGSSNGAVVQIYS 436
 QY 81 CNTAVREATIWIQXNGTIINPRSNLVLAASSGIKGTTLTVQ 122
 DB 437 CWGGANQK--WELRADGTIVGVQSLCLDAVGGGTGNGTRLQ 476

RESULT 9
 US-09-770-621-8
 ; Sequence 8, Application US/09770621
 ; Patent No. US20010024815A1
 ; GENERAL INFORMATION:
 ; APPLICANT: M nyl, Arja
 ; APPLICANT: Vehmaanper, Jari
 ; APPLICANT: Fagerstr m, Richard
 ; APPLICANT: Lantto, Raija
 ; APPLICANT: Paloheimo, Marja
 ; APPLICANT: Suominen, Pirkko
 ; APPLICANT: Lahtinen, Tarja
 ; TITLE OF INVENTION: Production and Secretion of Proteins of
 ; NUMBER OF SEQUENCES: 39
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 ; STREET: 1100 New York Ave., N.W. Suite 600
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/770,621
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/590,563
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/332,412

CLASSIFICATION:
 PRIOR APPLICATION DATA: US 08/332,412
 FILING DATE: 31-OCT-1994
 APPLICATION NUMBER: US 08/332,412
 FILING DATE: 29-JUL-1994
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 FILING DATE: 29-JUL-1994
 APPLICATION NUMBER: US 08/282,001
 FILING DATE: 29-JUL-1994
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bugalsky, Lawrence B.
 REGISTRATION NUMBER: 35,086
 REFERENCE/DOCKET NUMBER: 1050.0340003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 492 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-770-621-4

Query Match 8.9%; Score 117.5; DB 10; Length 492;
 Best Local Similarity 31.4%; Pred. No. 0.00015; Indels 5; Gaps 3;
 Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 VDVRDDDFHGNQIQLPWPSKNNPNQNLTKIKRDXITIRSNGLS-CLTTYGYTAGVYVVMIFD 80
 DB 379 IDVPNGNTADGTQVQLYDCHSGS--NQQWYTSSEGFIFGNKCLDAGSSNGAVVQIYS 436
 QY 81 CNTAVREATIWIQXNGTIINPRSNLVLAASSGIKGTTLTVQ 122
 DB 437 CWGGANQK--WELRADGTIVGVQSLCLDAVGGGTGNGTRLQ 476

RESULT 8
 US-09-770-621-7
 ; Sequence 7, Application US/09770621
 ; Patent No. US20010024815A1
 ; GENERAL INFORMATION:
 ; APPLICANT: M nyl, Arja
 ; APPLICANT: Vehmaanper, Jari
 ; APPLICANT: Fagerstr m, Richard
 ; APPLICANT: Lantto, Raija
 ; APPLICANT: Paloheimo, Marja
 ; APPLICANT: Suominen, Pirkko
 ; APPLICANT: Lahtinen, Tarja
 ; TITLE OF INVENTION: Production and Secretion of Proteins of
 ; NUMBER OF SEQUENCES: 39
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 ; STREET: 1100 New York Ave., N.W. Suite 600
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/770,621
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/590,563
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/332,412

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; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
; US-09-770-621-8

Query Match      8.7%; Score 115.5; DB 10; Length 491;
Best Local Similarity 27.9%; Pred. No. 0.00024;
Matches 39; Conservative 19; Mismatches 63; Indels 19; Gaps

QY 7 ASEP-----TVRIVGRXGMXVDVDRDDFDHGNQIQWLWPSKSNNDPNQLWTKIRD 55
Db 354 SSEPPXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQWDCHSGT--NQQAATDA 410
QY 56 XTIRNSG-SCLTGYTAGVVMIFDCNTAVREATIWIQWNGTIINPRSNLVLA--SS 112
Db 411 GEIRVYGDKLDAAAGTNGSKVQIYSCWGDNQK--WRLNSDGSVVGQSGICLDVAVNG 468
QY 113 GIKGTTLTVTQDLYTLGGGW 132
Db 469 TANGTLIQLVTCNSGNSQNW 488

RESULT 10
US-09-815-242-11833
; Sequence 11833, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Cart, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011a
; CURRENT APPLICATION NUMBER: US/09/815,242
; PRIORITY FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16

; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 11833
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-815-242-11833

Query Match      6.0%; Score 79; DB 10; Length 295;
Best Local Similarity 22.0%; Pred. No. 1.1;
Matches 48; Conservative 36; Mismatches 100; Indels 34; Gaps 10;

QY 2 DVTCASSEPTVRIVGRXGMXVDVDRDDFDHGNQIQWLWPSKSNNDPNQLWTKIRDXTIRSN 61
Db 37 DVNAALAEETQLASSGVVSTAVDVADREQVQADKAAASEHGRVNLIFNNAGVAHA 96
QY 62 GSCLTGYTAGVVMIFDCNTAVREATIWIQWNGTIINPRSNLVLAASSGIGKTTLT 121
Db 97 G---TVEGSDYSEYEWIMNIN-----FMGV-VNGT----KAFPLHLKASG-NGHVVNV 140
QY 122 QTLDTYTLGQ-GWLAGNDTAPREVTIYGF-----RDLCMESNX-----GSVWVETCKS 167
Db 141 SSVFGLFAQPGMSAYNAT---KYAVRGFTESLRQELDMEDSGVSASCVHPGGIKTNIART 197
QY 168 SQXNOXXWALYDGSIRPK-QNODQCLTXGRDSVSTVI 204
Db 198 ARNMESMAKVTGQAPDKAREQFNDQLLRTTPKAAQVI 235

RESULT 11
US-10-001-851-25
; Sequence 25, Application US/10001851
; Patent No. US20020115628A1
; GENERAL INFORMATION:
; APPLICANT: MEYERS, Rachel A.
; APPLICANT: WILLIAMSON, Mark
; TITLE OF INVENTION: 47169 and 33935, No. US20020115628A1e1 Human Glycosyl Transferase
; FILE REFERENCE: Uses Thereof
; FILE REFERENCE: 10147-56U1
; CURRENT APPLICATION NUMBER: US/10/001,851
; PRIORITY FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: US 60/249,939
; PRIOR FILING DATE: 2000-11-20
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
; US-10-001-851-25

Query Match      5.9%; Score 78; DB 12; Length 612;
Best Local Similarity 20.5%; Pred. No. 3.5;
Matches 44; Conservative 30; Mismatches 107; Indels 34; Gaps 10;

QY 66 TTYGYTAGVVMIFDCNTAVREATIWIQWNG---TIINPRSNLVLAASSGIGKTTLT 122
Db 404 TPTYTFPGGTAKVIH--HNAARTAEVMDEYKAFYKVPVPAARNVEAGDYSEKKLRET 461
QY 123 TLDYTLGGWLAGN-----DTAPREVTIYGRDLCMESN-----XGSVWVETCKSSQ 169
Db 462 CKSPK---WYLENTIYPEAPLPADFRSLGAIIVNRFTKCDVTNGKDKGQAPGQACHGAG 517
QY 170 XNOXXWALYDGSIRPKQNOQCLTXGR-DSVSTVINIVSCSXSSXQXQWVFT--NEXA 225
Db 518 GNQ-AWSLTGKEIR---SDDLCLSSGHVYQIGSELKERCSCVINVKHFVFDQAGT 573
QY 226 ILNLKXXXXXVDAQANPKLRRIIITYPATKPNQMW 260
Db 574 LLHKTKGCVTGADQRVTLDEC---GLGRKQDMW 604

RESULT 12
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; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
; US-09-770-621-8

Query Match      8.7%; Score 115.5; DB 10; Length 491;
Best Local Similarity 27.9%; Pred. No. 0.00024;
Matches 39; Conservative 19; Mismatches 63; Indels 19; Gaps

QY 7 ASEP-----TVRIVGRXGMXVDVDRDDFDHGNQIQWLWPSKSNNDPNQLWTKIRD 55
Db 354 SSEPPXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQWDCHSGT--NQQAATDA 410
QY 56 XTIRNSG-SCLTGYTAGVVMIFDCNTAVREATIWIQWNGTIINPRSNLVLA--SS 112
Db 411 GEIRVYGDKLDAAAGTNGSKVQIYSCWGDNQK--WRLNSDGSVVGQSGICLDVAVNG 468
QY 113 GIKGTTLTVTQDLYTLGGGW 132
Db 469 TANGTLIQLVTCNSGNSQNW 488

RESULT 10
US-09-815-242-11833
; Sequence 11833, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Cart, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011a
; CURRENT APPLICATION NUMBER: US/09/815,242
; PRIORITY FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
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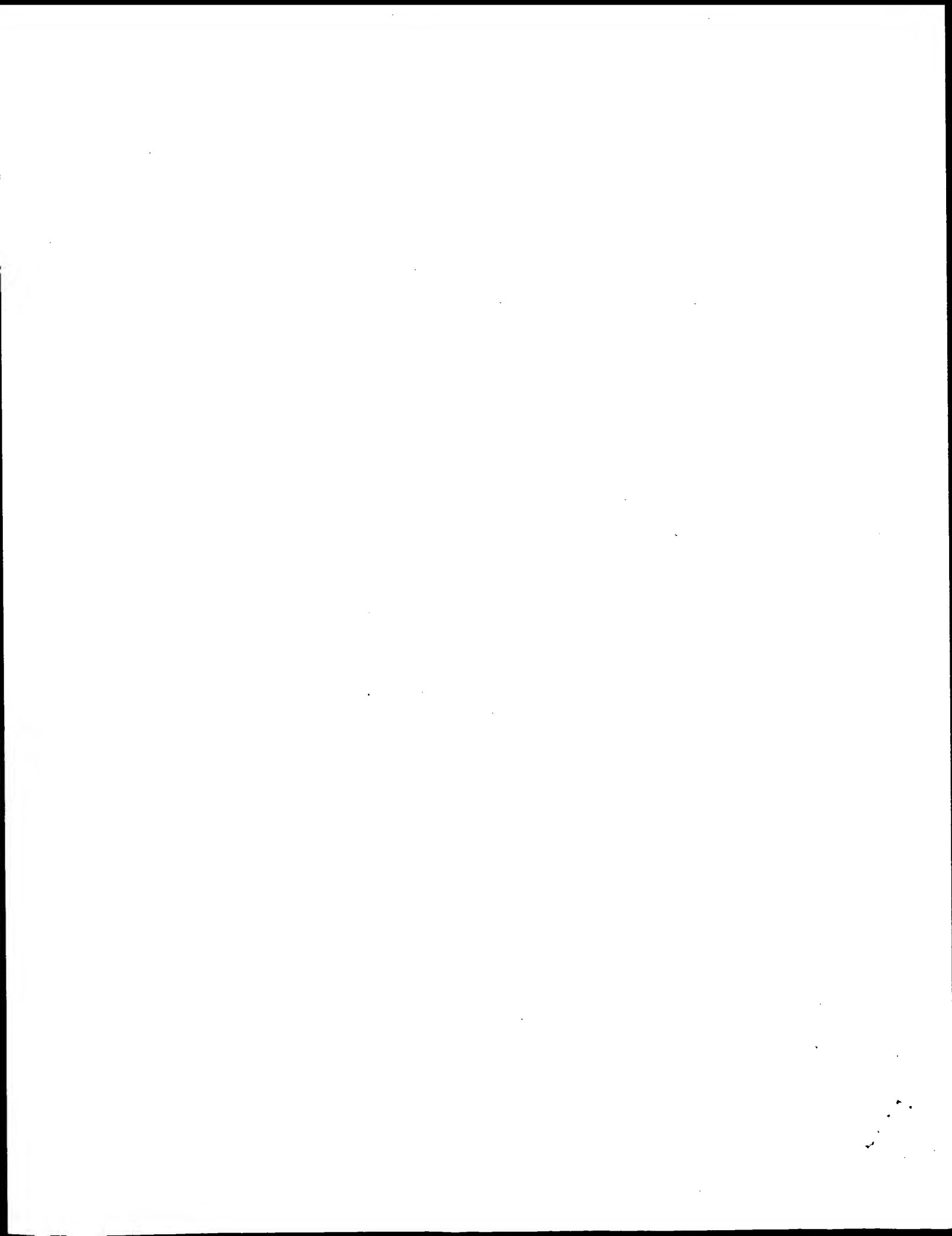
Sat Mar 22 10:41:20 2003

US-09-995-749A-2
; Sequence 2, Application US/09995749A
; Patent No. US20020155568A1
; GENERAL INFORMATION:
; APPLICANT: VAN GEEL-SCHUTTEN, GERRITDINA HENDRIKA
; APPLICANT: DIJKHUIZEN, LOUBBERT
; APPLICANT: RAHAOUI, HAKIM
; APPLICANT: LEER, ROBERT-JAN
; TITLE OF INVENTION: NOVEL GLUCOSYLTRANSFERASES
; FILE REFERENCE: BO43388-CIP
; CURRENT APPLICATION NUMBER: US/09/995,749A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: 09/604,957
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: EPO 00201871.1
; PRIOR FILING DATE: 2000-05-25
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1781
; TYPE: PRT
; ORGANISM: Lactobacillus reuteri
US-09-995-749A-2
Query Match 5.9%; Score 78; DB 9; Length 1781;
Best Local Similarity 20.5%; Pred. No. 14;
Matches 62; Conservative 31; Mismatches 105; Indels 104; Gaps 13;
QY 2 DVTCSASEPTVRIV-----GRXGMXVDVRDD-----DFHDGNOIQIWPXSKNNDPNQI 50
DB 175 DVTNNVAPDVKNVHNVYNADNSGFDVNVNIDFSKMKDYRD--SIEIVSRYSYGKGSVDW 232
QY 51 TIKRDXTIRSGSLCTTYGTAGV-----YVMIFD-----CNTAV 85
DB 233 WSQPIPTDKKNYALDTFEVKNKGELHATGMNATNSAINNHHFVILFDQTNGKEVARQEV 292
QY 86 REATIWIWNGTIIPRSNLVLAASGIGKTTLTVOFLDYT-----LGQG- 131
DB 293 REGO-----SRPDVAKYPQVVGANGSF-NVTFNISLDYTHQVQLVLSRYNSDNGEGD 346
QY 132 ---WLAGNTPAPREVTIYGRDLCMESNKGXSV-----WVETCSXSOXNQXKXWALYGDGSI 183
DB 347 NVTYWFNPQSTAPANQSQNGVLDGFDISKNGEVTVTGWNATDLSLQNNHYVILF----- 401
QY 184 RPKNQOCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEXAILNLKXXXXXVDAQANPK 243
DB 402 -----DQ--TAGKQVASAKADLIS-----RPDVAKAYPT 428
QY 244 LR 245
DB 429 VK 430
RESULT 13
US-09-770-621-6
; Sequence 6, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESS: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.

US-09-995-749A-2
; Sequence 2, Application US/09995749A
; Patent No. US20020155568A1
; GENERAL INFORMATION:
; APPLICANT: VAN GEEL-SCHUTTEN, GERRITDINA HENDRIKA
; APPLICANT: DIJKHUIZEN, LOUBBERT
; APPLICANT: RAHAOUI, HAKIM
; APPLICANT: LEER, ROBERT-JAN
; TITLE OF INVENTION: NOVEL GLUCOSYLTRANSFERASES
; FILE REFERENCE: BO43388-CIP
; CURRENT APPLICATION NUMBER: US/09/995,749A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: 09/604,957
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: EPO 00201871.1
; PRIOR FILING DATE: 2000-05-25
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1781
; TYPE: PRT
; ORGANISM: Lactobacillus reuteri
US-09-995-749A-2
Query Match 5.9%; Score 78; DB 9; Length 1781;
Best Local Similarity 20.5%; Pred. No. 14;
Matches 62; Conservative 31; Mismatches 105; Indels 104; Gaps 13;
QY 2 DVTCSASEPTVRIV-----GRXGMXVDVRDD-----DFHDGNOIQIWPXSKNNDPNQI 50
DB 175 DVTNNVAPDVKNVHNVYNADNSGFDVNVNIDFSKMKDYRD--SIEIVSRYSYGKGSVDW 232
QY 51 TIKRDXTIRSGSLCTTYGTAGV-----YVMIFD-----CNTAV 85
DB 233 WSQPIPTDKKNYALDTFEVKNKGELHATGMNATNSAINNHHFVILFDQTNGKEVARQEV 292
QY 86 REATIWIWNGTIIPRSNLVLAASGIGKTTLTVOFLDYT-----LGQG- 131
DB 293 REGO-----SRPDVAKYPQVVGANGSF-NVTFNISLDYTHQVQLVLSRYNSDNGEGD 346
QY 132 ---WLAGNTPAPREVTIYGRDLCMESNKGXSV-----WVETCSXSOXNQXKXWALYGDGSI 183
DB 347 NVTYWFNPQSTAPANQSQNGVLDGFDISKNGEVTVTGWNATDLSLQNNHYVILF----- 401
QY 184 RPKNQOCLTXGRDSVSTVINIVSCSXXSXQXRVFTNEXAILNLKXXXXXVDAQANPK 243
DB 402 -----DQ--TAGKQVASAKADLIS-----RPDVAKAYPT 428
QY 244 LR 245
DB 429 VK 430
RESULT 13
US-09-770-621-6
; Sequence 6, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESS: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.

Query Match 5.7%; Score 76; DB 10; Length 434;
Best Local Similarity 34.8%; Pred. No. 3.7;
Matches 24; Conservative 8; Mismatches 33; Indels 4; Gaps 3;
QY 11 TVRIVRGXGMXVDVRDDDFHDGNOIQIWPXSKNNDPNQIWKTKRDXTIRSGS-CLTTYG 69
DB 369 TIKGVG-SGRCLDVPNASTSDGVQLQW--DCHGGTNQOQWYTDSELRVYGNKCLDAAG 425
QY 70 YTAGVYVMI 78
DB 426 TNGTKVQI 434

RESULT 14
US-09-976-059-8
; Sequence 8, Application US/09976059
; Patent No. US20020164747A1
; GENERAL INFORMATION:
; APPLICANT: Farnet, Chris
; APPLICANT: Zazopoulos, Emmanuel
; APPLICANT: Staffa, Alfredo
; TITLE OF INVENTION: Genes and Proteins for Biosynthesis of Ramoplanin
; FILE REFERENCE: 3019-PCT
; CURRENT APPLICATION NUMBER: US/09/976,059
; CURRENT FILING DATE: 2001-10-15
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Actinoplanes sp.
; FEATURE:
; NAME/KEY: misc_feature



GenCore version 5.1.4 p5 4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 18.6581 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-4
Perfect score: 2791
Sequence: 1 YERLRVTHQTTEEYFR.....RRIIYPATGKPNQWMLPVP 531

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA.*

- 1: /cgn2_6/ptodata/2/pubpaa/US08_NEW PUB.pap.*
- 2: /cgn2_6/ptodata/2/pubpaa/PTCT_NEW PUB.pap.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW PUB.pap.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pap.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pap.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pap.*
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- 8: /cgn2_6/ptodata/2/pubpaa/PTCTUS_PUBCOMB.pap.*
- 9: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pap.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_NEW PUB.pap.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pap.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_NEW PUB.pap.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pap.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_NEW PUB.pap.*
- 15: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1406	50.4	263	10	US-09-347-064-10
2	1406	50.4	267	10	US-09-347-064-4
3	1285	46.0	252	10	US-09-347-064-8
4	1281	45.9	252	10	US-09-347-064-2
5	326	11.7	247	9	US-09-792-793A-39
6	308	11.0	332	10	US-09-765-527-251
7	304.5	10.9	251	10	US-09-765-527-247
8	301.5	10.8	293	10	US-09-765-527-259
9	301.5	10.8	309	10	US-09-765-527-253
10	294.5	10.6	247	9	US-09-792-793A-34
11	249.5	8.9	250	9	US-09-792-793A-36
12	204	7.3	263	10	US-09-978-274A-4
13	204	7.3	314	10	US-09-978-274A-2
14	184	6.6	145	12	US-10-074-527-5
15	180.5	6.5	275	9	US-09-792-793A-35
16	173.5	6.2	254	9	US-09-792-793A-85
17	173.5	6.2	327	9	US-09-792-793A-79
18	173.5	6.2	330	9	US-09-792-793A-82
19	173.5	6.2	332	9	US-09-792-793A-73

20	173.5	6.2	332	9	US-09-792-793A-76
21	150	5.7	491	10	US-09-770-621-8
22	138	4.9	480	10	US-09-770-621-5
23	138	4.9	492	10	US-09-770-621-4
24	138	4.9	492	10	US-09-770-621-4
25	136.5	4.9	135	9	US-09-973-457-5
26	136.5	4.9	135	12	US-10-074-527-5
27	132	4.7	110	10	US-09-978-274A-8
28	132	4.7	323	9	US-09-792-793A-80
29	132	4.7	325	9	US-09-792-793A-81
30	130	4.7	708	10	US-09-334-477-33
31	129	4.6	690	10	US-09-334-477-47
32	128	4.6	326	10	US-09-334-477-37
33	127.5	4.6	318	10	US-09-334-477-49
34	127.5	4.6	326	10	US-09-334-477-25
35	127.5	4.6	694	10	US-09-334-477-49
36	127	4.6	315	10	US-09-334-477-2
37	127	4.6	319	9	US-09-792-793A-38
38	127	4.6	319	9	US-09-870-759-28
39	127	4.6	323	10	US-09-334-477-21
40	127	4.6	325	9	US-09-792-793A-74
41	127	4.6	327	9	US-09-792-793A-75
42	126	4.5	247	9	US-09-792-793A-83
43	126	4.5	249	9	US-09-792-793A-84
44	126	4.5	320	9	US-09-792-793A-77
45	126	4.5	322	9	US-09-792-793A-78

ALIGNMENTS

RESULT 1

US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1

GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen

; APPLICANT: Schmitt, Arno

; TITLE OF INVENTION: Recombinant Fusion Proteins Based on.

; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum

; FILE REFERENCE: 09282-5

; CURRENT APPLICATION NUMBER: US/09/347,064A

; EARLIER FILING DATE: 1999-07-02

; EARLIER FILING DATE: PCT/EP98/00009

; EARLIER FILING DATE: 1998-01-02

; EARLIER APPLICATION NUMBER: EP 97 10 0012.0

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: Patent in Ver. 2.1

; SEQ ID NO 10

; LENGTH: 263

; TYPE: PRT

; ORGANISM: Viscum album

US-09-347-064-10

Query Match

Best Local Similarity 50.4%; Score 1406; DB 10; Length 263;

Matches 260; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY	269	DDVTCASBPTRIVGRNMCVDRDDDFHDGNGIQIQLWFSKSNNDPNQLWTIKRDCGTIRS	328
DB	1	DDVTCASBPTRIVGRNMCVDRDDDFHDGNGIQIQLWFSKSNNDPNQLWTIKRDCGTIRS	60
QY	329	NGSCLTITGYTAGVVMVIFDCNTAVREATIWIWNGTIINPRSNLVLAASSGIKGTITL	388
DB	61	NGSCLTITGYTAGVVMVIFDCNTAVREATIWIWNGTIINPRSNLVLAASSGIKGTITL	120
QY	389	VOTLDYTLGQGWLAGNDTAPREVTIYGRDLCMESNGGVSVVETCVSSQONRWALYGDG	448
DB	121	VOTLDYTLGQGWLAGNDTAPREVTIYGRDLCMESNGGVSVVETCVSSQONRWALYGDG	180

us-09-601-667c-4.rapb

Sat Mar 22 10:41:29 2003

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;
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
; US-09-347-064-8

Query Match      46.0%; Score 1285; DB 10; Length 252;
Best Local Similarity 99.6%; Pred. No. 3.7e-108; Indels 0; Gaps 0;
Matches 251; Conservative 1; Mismatches 0;

Qy 1 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 60
Db 1 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 60
Qy 61 QGGDSITAAIDVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGNSYDPLER 120
Db 61 QGGDSITAAIDVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGNSYDPLER 120
Qy 121 YAGHRDQIPGIDQLIQSVTALRFPGGSTRTOARSILILIQMISEAARFNPLWRARQYI 180
Db 121 YAGHRDQIPGIDQLIQSVTALRFPGGSTRTOARSILILIQMISEAARFNPLWRARQYI 180
Qy 181 NSGASFUPDVYMLETSSWGQOSTQVQHSSTGCVFNNPRLAIPGNNFVTLTNVRDVIASL 240
Db 181 NSGASFUPDVYMLETSSWGQOSTQVQHSSTGCVFNNPRLAIPGNNFVTLTNVRDVIASL 240
Qy 241 AIMLFVCGGERPS 252
Db 241 AIMLFVCGGERPS 252

RESULT 4
US-09-347-064-2
; Sequence 2, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT FILING DATE: 1999-07-02
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
; US-09-347-064-2

Query Match      45.9%; Score 1281; DB 10; Length 252;
Best Local Similarity 99.6%; Pred. No. 8.6e-108; Indels 0; Gaps 0;
Matches 250; Conservative 1; Mismatches 0;

Qy 1 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 60
Db 2 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 61
Qy 61 QGGDSITAAIDVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGNSYDPLER 120

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; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
; US-09-347-064-8

Query Match      46.0%; Score 1285; DB 10; Length 252;
Best Local Similarity 99.6%; Pred. No. 3.7e-108; Indels 0; Gaps 0;
Matches 251; Conservative 1; Mismatches 0;

Qy 1 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 60
Db 1 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 60
Qy 61 QGGDSITAAIDVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGNSYDPLER 120
Db 61 QGGDSITAAIDVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGNSYDPLER 120
Qy 121 YAGHRDQIPGIDQLIQSVTALRFPGGSTRTOARSILILIQMISEAARFNPLWRARQYI 180
Db 121 YAGHRDQIPGIDQLIQSVTALRFPGGSTRTOARSILILIQMISEAARFNPLWRARQYI 180
Qy 181 NSGASFUPDVYMLETSSWGQOSTQVQHSSTGCVFNNPRLAIPGNNFVTLTNVRDVIASL 240
Db 181 NSGASFUPDVYMLETSSWGQOSTQVQHSSTGCVFNNPRLAIPGNNFVTLTNVRDVIASL 240
Qy 241 AIMLFVCGGERPS 252
Db 241 AIMLFVCGGERPS 252

RESULT 4
US-09-347-064-2
; Sequence 2, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT FILING DATE: 1999-07-02
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Viscum album
; US-09-347-064-2

Query Match      45.9%; Score 1281; DB 10; Length 252;
Best Local Similarity 99.6%; Pred. No. 8.6e-108; Indels 0; Gaps 0;
Matches 250; Conservative 1; Mismatches 0;

Qy 1 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 60
Db 2 YERLRVTHQTGGEEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAORFVLVELTN 61
Qy 61 QGGDSITAAIDVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGNSYDPLER 120

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Db 62 QGDSITAIADITNLVYVAYAGDQSYFLRDAPRGAETHLFTGTTSSLPFNGSYDLER 121
QY 121 YAGHRDQIPGLDQIQSVTALRFPQSGSTRTOARSTLIILOMISEAARENPIILWRARQYI 180
Db 122 YAGHRDQIPGLDQIQSVTALRFPQSGSTRTOARSTLIILOMISEAARENPIILWRARQYI 181
QY 181 NSGASFLPDVYMLETSGWQOSTQVQHSITDGVFNPIRLAIPPGNFVLTNRVDVIASL 240
Db 182 NSGASFLPDVYMLETSGWQOSTQVQHSITDGVFNPIRLAIPPGNFVLTNRVDVIASL 241
QY 241 AIMLFVCGERP 251
Db 242 AIMLFVCGERP 252

RESULT 5

US-09-792-793A-39
; Sequence 39, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; FILE REFERENCE: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 39
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Trichosantheus kirilowii
US-09-792-793A-39

Query Match 11.7%; Score 326; DB 9; Length 247;
Best Local Similarity 36.0%; Pred. No. 1.2e-21;
Matches 86; Conservative 54; Mismatches 85; Indels 14; Gaps 9;
QY 13 TGEYFRFTLLRDVYSSGFSNEIPLLRQSTIPVSDAQRFLVLTNRGSGSITAAIDV 72
Db 10 TSSSYGVFISLRLKALPNERKLYDPLRL-SSLPGS--QRYALIHLTNYADETISVAIDV 66
QY 73 TNLVYVAYAGDQSYFLRDA-PRGAETHLFTGTTTRS-SLPFNGSYDLERYAGH-RDOIP 129
Db 67 TNYIMGVYAGDQSYFLRDA-PRGAETHLFTGTTTRS-SLPFNGSYDLERYAGH-RDOIP 126
QY 130 LGIDQLIQSVTALRFPQSGSTRTOARSTLIILOMISEAARENPIILWRARQYINGASFLPD 189
Db 127 LGLPALDSAITLTFY--YNANSASALMVLIOSTSEAAARYKFEQQIGKRVDK--TFLPS 182
QY 190 VYMLETSGWQOSTQVQ--HSTDGVFNPIRLAIPPGNFVLTNRVD--VIASLAIML 244
Db 183 LAIISLNSWSALSQIQIASTNNQSPVVLNAQNRVTIIVDAGVVTNSIALLL 241

RESULT 6

US-09-765-527-251
; Sequence 251, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 251:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 251:
US-09-765-527-251

Query Match 11.0%; Score 308; DB 10; Length 332;
Best Local Similarity 31.4%; Pred. No. 8e-20;
Matches 90; Conservative 51; Mismatches 132; Indels 14; Gaps 7;
QY 8 VTHQTGGEYFRFTLLRDY--VSSGFSNEIPLLRQSTIPVSDAQRFLVLTNRGSGD 64
Db 27 VFSFTKGATYIITYVNFNLKLPKPGNSHGIPLLRKC--DDPKCFVLVLSNDNGQ 84
QY 65 SITAAIDVTNLVYVAYAGDQSYFLRDAPRGAETHLFTGTTSSLPFNGSYDLERYAGH 124
Db 85 LAEIAIDVTNVYVGVQVNRYSYFFKADPAAYEGLFKNTIKTRLHFGGTYSLEGEKAY 144
QY 125 RQIPLIGDQL---TOSVTALRFPQSGSTRTOARSTLIILOMISEAARENPIILWRARQYIN 181
Db 145 RETTDLGIEPLRIGIKKLDENADINVKPTEIASSLLVVIQVSEAAARFTFIENQIRN--N 202
QY 182 SGASFLPDVYMLETSGWQOSTQVQHS-TDGVFNPIRLAIPPGNFVLTNRVDVIASL 240
Db 203 FQORIRPANNTISLENKWKLSFQIRTSANGMFSEAVELEFRANGKYYVTAVDQVKPKI 262
QY 241 AIMLFVCGERPSSDVRVYPLVIRPVIADDV--TCSASEPTVIRVGR 285
Db 263 ALLKRV-DKDPKSAACHHSHASRVARMASDEFPSMCAMALDPIKISGK 308

RESULT 7

US-09-765-527-247
; Sequence 247, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

us-09-601-667c-4.rapb

Sat Mar 22 10:41:29 2003

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/621,803
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Borun, Michael F.
 REGISTRATION NUMBER: 25,447
 REFERENCE/DOCKET NUMBER: 27129/33199
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 312/474-0448
 TELEX: 25-3856
 INFORMATION FOR SEQ ID NO: 259:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 293 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 259:
 US-09-765-527-259

Query Match 10.8%; Score 301.5; DB 10; Length 293;
 Best Local Similarity 34.1%; Pred. No. 2.6e-19;
 Matches 84; Conservative 39; Mismatches 112; Indels 11; Gaps 5;
 QY 8 VTHQTGEYFRFTLLRDY---VSSGFSFNEIPLLRQSTIPVSDAQRFLVELTNOGGD 64
 Db 27 VSFSTKGATYTYVNFLELRLVKLPKGNHSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84
 QY 65 SITAADVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGSYDPLERYAGH 124
 Db 85 LAEIAIDVTSVVGVQVNRNRYFFKDPADAAVEGLFKNTIKRLHFGGTTPSLEGEKAY 144
 QY 125 RDQIPGLIDQL---IQSVTALRPPGGSTRTOARSILILQIMISEAAREFNILWRARQYIN 181
 Db 145 RETTDLGIEPLRIGIKKLDENADINRYKPTETASLLVVIQMVSEARFTFIENQIRN--N 202
 QY 182 SGASFLPDVYMLETSWGQOSTQVQHS--TDGVFNPNIRLAIPGPNFVTLTNVRDVIASL 240
 Db 203 FQOIRPANNTISLENKWKGLSFQIRTSANGMFSEAVELERANGKYYVYVAVDQVKPKI 262
 QY 241 AIMLFV 246
 Db 263 ALLKFV 268

RESULT 9

US-09-765-527-253
 Sequence 253, Application US/09765527
 Patent No. US20020006638A1
 GENERAL INFORMATION:
 APPLICANT: Better, Marc D.
 TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
 NUMBER OF SEQUENCES: 265
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 STREET: 6300 Sears Tower, 233 South Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60606-6402
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION NUMBER: US/09/765,527
 FILING DATE: 18-Jan-2001
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/621,803
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/765,527

FILING DATE: 18-Jan-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/621,803

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Borun, Michael F.

REGISTRATION NUMBER: 25,447

REFERENCE/DOCKET NUMBER: 27129/33199

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312/474-6300

TELEFAX: 312/474-0448

TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 247:

SEQUENCE CHARACTERISTICS:

LENGTH: 251 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 247:

US-09-765-527-247
 Query Match 10.9%; Score 304.5; DB 10; Length 251;
 Best Local Similarity 34.6%; Pred. No. 1.1e-19;
 Matches 85; Conservative 38; Mismatches 112; Indels 11; Gaps 5;
 QY 8 VTHQTGEYFRFTLLRDY---VSSGFSFNEIPLLRQSTIPVSDAQRFLVELTNOGGD 64
 Db 5 VSFSTKGATYTYVNFLELRLVKLPKGNHSHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 62
 QY 65 SITAADVTNLVYVAYQAGDSYFLRDAPRGAETHLFTGTRSSLPFGSYDPLERYAGH 124
 Db 63 LAEIAIDVTSVVGVQVNRNRYFFKDPADAAVEGLFKNTIKRLHFGGTTPSLEGEKAY 122
 QY 125 RDQIPGLIDQL---IQSVTALRPPGGSTRTOARSILILQIMISEAAREFNILWRARQYIN 181
 Db 123 RETTDLGIEPLRIGIKKLDENADINRYKPTETASLLVVIQMVSEARFTFIENQIRN--N 180
 QY 182 SGASFLPDVYMLETSWGQOSTQVQHS--TDGVFNPNIRLAIPGPNFVTLTNVRDVIASL 240
 Db 181 FQOIRPANNTISLENKWKGLSFQIRTSANGMFSEAVELERANGKYYVYVAVDQVKPKI 240
 QY 241 AIMLFV 246
 Db 241 ALLKFV 246

RESULT 8

US-09-765-527-259
 Sequence 259, Application US/09765527
 Patent No. US20020006638A1
 GENERAL INFORMATION:
 APPLICANT: Better, Marc D.
 TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
 NUMBER OF SEQUENCES: 265
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 STREET: 6300 Sears Tower, 233 South Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60606-6402
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION NUMBER: US/09/765,527
 FILING DATE: 18-Jan-2001

Query Match	10.6%;	Score 294.5;	DB 9;	Length 247;
Best Local Similarity	33.1%;	Pred. No. 8.6e-19;		
Matches	81;	Conservative 55;	Mismatches 94;	Indels 15; Gaps
7	RVTHQTGGEYFPFILLRRDYSVSGSPENIPILLRQSTIPVSDAQRFVLVELTNQGGDSI	66		
5	RLSGATT-TSYGVFIKNLREALPYERKVNIPILRSS--ISGSGRYTLHLHNTNVADETI	60		
67	TAADITNLNLYWAYQAGDQSYFLRD--APRGAEHTLFTGCTIRSLPNCGYPDLERVAGH	124		
61	SVAVDVTNVIMGLAGDVSIFYFNEASATAARXKVFVKDAKKVTLPYSGNYERLQTAAAGK	120		

RESULT 12

S-09-978-274A-4
Sequence 4, Application US/09978274A
Patent No. US20020116731A1
GENERAL INFORMATION:
APPLICANT: Thomas, Christopher
APPLICANT: McPherson, Michael
APPLICANT: Atkinson, Howard
APPLICANT: Neelam, Anil
TITLE OF INVENTION: PLANT CELL DEATH
FILE REFERENCE: 9341-028
CURRENT APPLICATION NUMBER: US/09/978274A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 0025225.4
PRIOR FILING DATE: 2000-10-14

Db 197 MVSEARFKYIENQVK--TNFNRAFYDPKVINLEEKWKISEAHNKNGALPKPLELV 254
 QY 222 IPPGNFVTLTNVRDVIAASLAIMLFVCG 248
 Db 255 DAKGTWIVLRVDEINRDVALLKYVG 281

RESULT 14
 US-10-074-527-5
 ; Sequence 5, Application US/10074527
 ; Patent No. US20020142426A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Meyers, Rachel E.
 ; APPLICANT: Olandt, Peter J.
 ; APPLICANT: Galvin, Katherine E.
 ; APPLICANT: Millennium Pharmaceuticals Inc.
 ; TITLE OF INVENTION: 3945, A Human Glycosyltransferase and
 ; TITLE OF INVENTION: Uses Therefor
 ; FILE REFERENCE: MPI2001-018P1RCP1(M)
 ; CURRENT APPLICATION NUMBER: US/10/074,527
 ; CURRENT FILING DATE: 2002-02-12
 ; PRIOR APPLICATION NUMBER: 60/269202
 ; PRIOR FILING DATE: 2001-02-15
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 145
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: consensus
 US-10-074-527-5

Query Match 6.6%; Score 184; DB 12; Length 145;
 Best Local Similarity 29.4%; Pred. No. 3.7e-09;
 Matches 50; Conservative 27; Mismatches 53; Indels 40; Gaps 7;
 QY 279 TVRIVGRNKMVDVDRDDHFGNQIQLWPSKSNNDPNQWTI---KRDGTIRS---NGSC 332
 Db 7 TILVNGSGRCLDVNSSESSESDGNQVQLWNCNCHSPGNKQWSLYDESDGEIRSVVNDKC 66
 QY 333 LITYGYTAGVYVIMPCDNTAVREATIWIWNGGTIIPRNLVLAASSGKGTTLTVOTL 392
 Db 67 LTVNANSPGSEVKLYQDSATSQKWLNDGLGN--KILLNLVNTGL-----VL 116
 QY 393 DYTLLGQWLAGNDTAPREVIYGFRLCMESNGSGSVWVEICVSSQONRW 442
 Db 117 D-----VKGSDT-----QNGTKLILYTC-SGRNQOW 142

RESULT 15
 US-09-792-793A-35
 ; Sequence 35, Application US/09792793A
 ; Patent No. US20020168370A1
 ; GENERAL INFORMATION:
 ; APPLICANT: McDonald, John R.
 ; APPLICANT: Coggin, Philip
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE
 ; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
 ; FILE REFERENCE: 25020-601D
 ; CURRENT APPLICATION NUMBER: US/09/792,793A
 ; CURRENT FILING DATE: 2001-02-22
 ; NUMBER OF SEQ ID NOS: 93
 ; SOFTWARE: PatentIn ver. 2.0
 ; SEQ ID NO 35
 ; LENGTH: 275
 ; TYPE: PRT
 ; ORGANISM: Saponaria officinalis
 US-09-792-793A-35

Query Match 6.5%; Score 180.5; DB 9; Length 275;
 Best Local Similarity 26.2%; Pred. No. 1.9e-08;

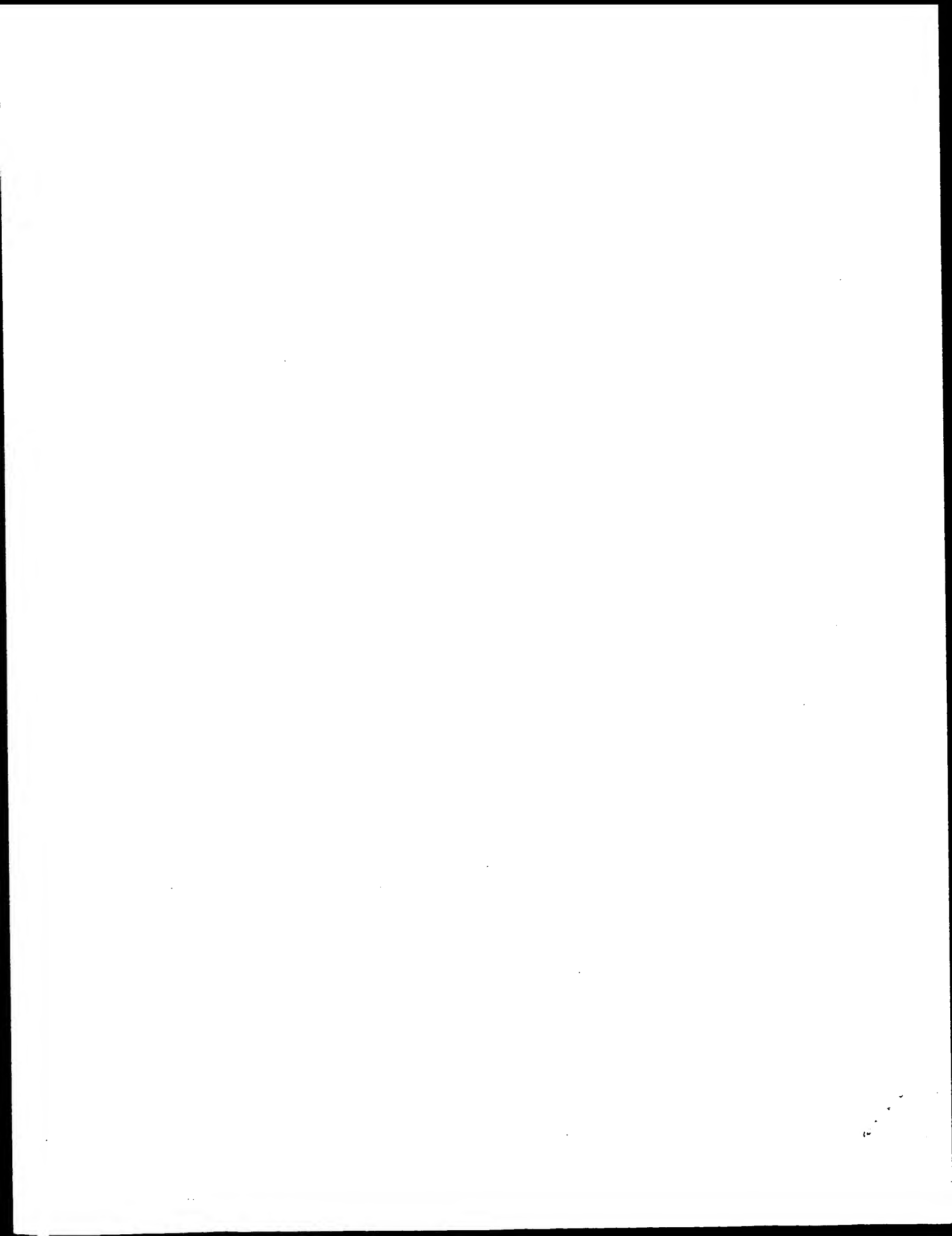
; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 4
 ; LENGTH: 263
 ; TYPE: PRT
 ; ORGANISM: Phytolacca americana
 US-09-978-274A-4

Query Match 7.3%; Score 204; DB 10; Length 263;
 Best Local Similarity 26.2%; Pred. No. 1.4e-10;
 Matches 70; Conservative 46; Mismatches 99; Indels 52; Gaps 10;
 QY 13 TGEYFRFITLLRDYVSSGSFSEIFLLRQSTIPV-----SDAORFVLVELTNOGGDSITA 68
 Db 13 TINKYATFMESLRNQA-----PKLKYGIPMLPDTNSTPKYLLVKLGANLKTITL 65
 QY 69 AIDVTNLYVAYAGQCSYFLRDPAG--AETHLF--TGTRTS----- 107
 Db 66 MLRRNNLYVMGYG-----DFFNGNCKRYHIFNDITSTERTDVENTILCSSSSSRVAM 116
 QY 108 SLFPNGSYDPLERYA--GHRDQIPLGIDLIQSVTAL-----RFPGGSTRTOARSILILIQ 161
 Db 117 SINYSILYPTMEKKAENVSRNQVLGQILSSDIGKISGVDSFP---VKTEAFFLLVAIQ 173
 QY 162 MISEAARFNILWRARQYINGASFLPDVYMLELETSGWQOSTQVQHSSTGCVFNNPIRLA 221
 Db 174 MVSEARFKYIENQVK--TNFNRAFYDPKVINLEEKWKISEAHNKNGALPKPLELV 231
 QY 222 IPPGNFVTLTNVRDVIAASLAIMLFVCG 248
 Db 232 DAKGTWIVLRVDEINRDVALLKYVG 258

RESULT 13
 US-09-978-274A-2
 ; Sequence 2, Application US/09978274A
 ; Patent No. US20020116737A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Christopher
 ; APPLICANT: McPherson, Michael
 ; APPLICANT: Atkinson, Howard
 ; APPLICANT: Neelam, Anil
 ; TITLE OF INVENTION: PLANT CELL DEATH SYSTEM
 ; FILE REFERENCE: 9341-028
 ; CURRENT APPLICATION NUMBER: US/09/978,274A
 ; CURRENT FILING DATE: 2001-10-15
 ; PRIOR APPLICATION NUMBER: 0025225.4
 ; PRIOR FILING DATE: 2000-10-14
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 314
 ; TYPE: PRT
 ; ORGANISM: Phytolacca americana
 US-09-978-274A-2

Query Match 7.3%; Score 204; DB 10; Length 314;
 Best Local Similarity 26.2%; Pred. No. 1.8e-10;
 Matches 70; Conservative 46; Mismatches 99; Indels 52; Gaps 10;
 QY 13 TGEYFRFITLLRDYVSSGSFSEIFLLRQSTIPV-----SDAORFVLVELTNOGGDSITA 68
 Db 36 TINKYATFMESLRNQA-----PKLKYGIPMLPDTNSTPKYLLVKLGANLKTITL 88
 QY 69 AIDVTNLYVAYAGQCSYFLRDPAG--AETHLF--TGTRTS----- 107
 Db 89 MLRRNNLYVMGYG-----DFFNGNCKRYHIFNDITSTERTDVENTILCSSSSSRVAM 139
 QY 108 SLFPNGSYDPLERYA--GHRDQIPLGIDLIQSVTAL-----RFPGGSTRTOARSILILIQ 161
 Db 140 SINYSILYPTMEKKAENVSRNQVLGQILSSDIGKISGVDSFP---VKTEAFFLLVAIQ 196
 QY 162 MISEAARFNILWRARQYINGASFLPDVYMLELETSGWQOSTQVQHSSTGCVFNNPIRLA 221

Search completed: March 22, 2003, 10:37:17
Job time : 21.6581 secs



GenCore version 5.1.4 p5 4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 16.3889 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-4
Perfect score: 2791
Sequence: 1 YERLRLVTHQTGEYFRF.....RRIIYPATGPKNWMPLVP 531

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Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2770	99.2	564	4	US-08-776-059-35
2	1406	50.4	263	4	US-08-776-059-43
3	1406	50.4	264	4	US-08-776-059-33
4	1285	46.0	253	4	US-08-776-059-31
5	1197	42.9	235	4	US-08-776-059-39
6	1191.5	42.7	540	1	US-08-378-761A-77
7	1191.5	42.7	540	1	US-08-485-286-77
8	466.5	16.7	250	1	US-08-378-761A-71
9	466.5	16.7	250	1	US-08-485-286-71
10	418	15.0	534	2	US-08-356-786-10
11	387	13.9	267	1	US-07-901-707-1
12	387	13.9	267	1	US-07-988-430-1
13	387	13.9	267	1	US-08-218-303-16
14	387	13.9	267	1	US-08-425-336-1
15	387	13.9	267	1	US-08-488-113B-1
16	387	13.9	267	1	US-08-477-484B-1
17	387	13.9	267	2	US-08-646-360-1
18	387	13.9	267	2	US-08-338-793D-61
19	387	13.9	267	4	US-08-839-765-1
20	387	13.9	267	4	US-09-136-389-1
21	387	13.9	267	4	US-09-610-838-1
22	387	13.9	267	5	PCT-US92-09487-1
23	387	13.9	268	2	US-08-356-786-8
24	383	13.7	290	1	US-08-378-761A-27
25	383	13.7	290	1	US-08-485-286-27
26	383	13.7	290	6	5248606-4
27	350	12.5	282	1	US-08-324-301-15

28	344.5	12.3	263	1	US-07-901-707-4	Sequence 4, Appli
29	344.5	12.3	263	1	US-07-988-430-4	Sequence 4, Appli
30	344.5	12.3	263	1	US-08-425-336-4	Sequence 4, Appli
31	344.5	12.3	263	1	US-08-488-113B-4	Sequence 4, Appli
32	344.5	12.3	263	1	US-08-477-484B-4	Sequence 4, Appli
33	344.5	12.3	263	2	US-08-646-360-4	Sequence 4, Appli
34	344.5	12.3	263	4	US-08-839-765-4	Sequence 4, Appli
35	344.5	12.3	263	4	US-09-136-389-4	Sequence 4, Appli
36	344.5	12.3	263	4	US-09-610-838-4	Sequence 4, Appli
37	344.5	12.3	263	5	PCT-US92-09487-4	Sequence 4, Appli
38	340.5	12.2	286	1	US-08-324-301-13	Sequence 13, Appli
39	326	11.7	267	1	US-08-378-761A-74	Sequence 74, Appli
40	326	11.7	267	1	US-08-485-286-74	Sequence 74, Appli
41	324	11.6	247	1	US-08-488-113B-6	Sequence 6, Appli
42	324	11.6	247	1	US-08-477-484B-6	Sequence 6, Appli
43	324	11.6	247	2	US-08-646-360-6	Sequence 6, Appli
44	324	11.6	247	4	US-08-839-765-6	Sequence 6, Appli
45	324	11.6	247	4	US-09-136-389-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1

US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776, 059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-35

Query Match 99.2%; Score 2770; DB 4; Length 564;
Best Local Similarity 99.1%; Pred. No. 1.3e-259;
Matches 526; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy	1	YERLRLVTHQTGEYFRFILLRRDYVSSGFSNFIPLLRQSTIPVSDAQRFVLVLTN	60
Db	34	YERLRLVTHQTGEYFRFILLRRDYVSSGFSNFIPLLRQSTIPVSDAQRFVLVLTN	93
Qy	61	QCGDSITAAIDVNLVYVAYQAGDOSYFLRDAPRGAEHLFTGTTTSSLPFNGSYPLDR	120
Db	94	QCGDSITAAIDVNLVYVAYQAGDOSYFLRDAPRGAEHLFTGTTTSSLPFNGSYPLDR	153
Qy	121	YAGHRDQIPLGDIQIQTALRPFQSGSTRQARSILILIQMISEAARFNPILWRARQYI	180
Db	154	YAGHRDQIPLGDIQIQTALRPFQSGSTRQARSILILIQMISEAARFNPILWRARQYI	213
Qy	181	NSGASFLPDVYMLETSWGQOSTQVQHSITDGVFNPNPIRLAIPPGNFVLTNRDVIASL	240
Db	214	NSGASFLPDVYMLETSWGQOSTQVQHSITDGVFNPNPIRLAIPPGNFVLTNRDVIASL	273
Qy	241	AIMLFCVGERSSSDVRYWPLVIRPVIAADVTCSEPTVIRVGRNGMCDVDRDDDFHGD	300
Db	274	AIMLFCVGERSSSDVRYWPLVIRPVIAADVTCSEPTVIRVGRNGMCDVDRDDDFHGD	333
Qy	301	NOIQLWPSKNNPNQLWTIKRDGTRNSGCLTITGYTAGVYVMIFDCNTAVREATIQW	360

Db 334 NQIQWPSKSNNDPNQLWTIKRDTGIRSNGLTYYTAGVVMIFDCNTAVREATLWQ 393
Qy 361 IWNGTIIINPRNLVLAASSGIGKTTLTQTLDYTLGQWLAGNDTAPREVITYGFRDLC 420
Db 394 IWNGTIIINPRNLVLAASSGIGKTTLTQTLDYTLGQWLAGNDTAPREVITYGFRDLC 453
Qy 421 MESNGSVVWVETCVSSQKNQWALYDGSIRPKQNDQCLTCGRDSVSTVINIVSCSAGS 480
Db 454 MESNGSVVWVETCVSSQKNQWALYDGSIRPKQNDQCLTCGRDSVSTVINIVSCSAGS 513
Qy 481 SQRWFTNEGAILNLKGLAMDVAQANPKLRRIIYPATGKPNQWMLPVP 531
Db 514 SQRWFTNEGAILNLKGLAMDVAQANPKLRRIIYPATGKPNQWMLPVP 564

RESULT 2
US-08-776-059-43
Query Match 50.4%; Score 1406; DB 4; Length 263;
Best Local Similarity 98.9%; Pred. No. 4.9e-128;
Matches 260; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: LENTZEN, Hans
APPLICANT: ECK, Jurgen
APPLICANT: BAUR, Axel
APPLICANT: ZINKE, Holger
TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
FILE REFERENCE: 674503-2003
CURRENT APPLICATION NUMBER: US/08/776,059B
CURRENT FILING DATE: 1999-06-19
EARLIER APPLICATION NUMBER: PCT/EP96/02273
EARLIER FILING DATE: 1996-06-25
EARLIER APPLICATION NUMBER: 95109949.8
EARLIER FILING DATE: 1995-06-26
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 43
LENGTH: 263
TYPE: PRT
ORGANISM: Viscum album
US-08-776-059-43

Query Match 50.4%; Score 1406; DB 4; Length 263;
Best Local Similarity 98.9%; Pred. No. 4.9e-128;
Matches 260; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 269 DDVTCASAEPTVRIVGRNGMCDVDRDDDFHDCNQIQLWPSKSNNDPNQLWTIKRDTGIRS 328
Db 1 DDVTCASAEPTVRIVGRNGMCDVDRDDDFHDCNQIQLWPSKSNNDPNQLWTIKRDTGIRS 60
Qy 329 NGSCLTYYGYTAGVVMIFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 388
Db 61 NGSCLTYYGYTAGVVMIFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 120
Qy 389 VQTLDTLGGWLAGNDTAPREVITYGFRDLCSNGSGVWVETCVSSQKNQWALYDGG 448
Db 121 VQTLDTLGGWLAGNDTAPREVITYGFRDLCSNGSGVWVETCVSSQKNQWALYDGG 180
Qy 449 SIRPKONDQCLTCGRDSVSTVINIVSCSAGSGQRWVFTNEGAILNLKGLAMDVAQAN 508
Db 181 SIRPKONDQCLTCGRDSVSTVINIVSCSAGSGQRWVFTNEGAILNLKGLAMDVAQAN 240
Qy 509 PKLRRIIYPATGKPNQWMLPVP 531
Db 241 PKLRRIIYPATGKPNQWMLPVP 263

RESULT 3
US-08-776-059-33
Query Match 46.0%; Score 1285; DB 4; Length 253;
Best Local Similarity 99.6%; Pred. No. 2.4e-116;
Matches 251; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: LENTZEN, Hans
APPLICANT: ECK, Jurgen

APPLICANT: BAUR, Axel
APPLICANT: ZINKE, Holger
TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
FILE REFERENCE: 674503-2003
CURRENT APPLICATION NUMBER: US/08/776,059B
CURRENT FILING DATE: 1999-06-19
EARLIER APPLICATION NUMBER: PCT/EP96/02273
EARLIER FILING DATE: 1996-06-25
EARLIER APPLICATION NUMBER: 95109949.8
EARLIER FILING DATE: 1995-06-26
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 33
LENGTH: 264
TYPE: PRT
ORGANISM: Viscum album
US-08-776-059-33

Query Match 50.4%; Score 1406; DB 4; Length 264;
Best Local Similarity 98.9%; Pred. No. 4.9e-128;
Matches 260; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 269 DDVTCASAEPTVRIVGRNGMCDVDRDDDFHDCNQIQLWPSKSNNDPNQLWTIKRDTGIRS 328
Db 2 DDVTCASAEPTVRIVGRNGMCDVDRDDDFHDCNQIQLWPSKSNNDPNQLWTIKRDTGIRS 61
Qy 329 NGSCLTYYGYTAGVVMIFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 388
Db 62 NGSCLTYYGYTAGVVMIFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGIGKTTLT 121
Qy 389 VQTLDTLGGWLAGNDTAPREVITYGFRDLCSNGSGVWVETCVSSQKNQWALYDGG 448
Db 122 VQTLDTLGGWLAGNDTAPREVITYGFRDLCSNGSGVWVETCVSSQKNQWALYDGG 181
Qy 449 SIRPKONDQCLTCGRDSVSTVINIVSCSAGSGQRWVFTNEGAILNLKGLAMDVAQAN 508
Db 182 SIRPKONDQCLTCGRDSVSTVINIVSCSAGSGQRWVFTNEGAILNLKGLAMDVAQAN 241
Qy 509 PKLRRIIYPATGKPNQWMLPVP 531
Db 242 PKLRRIIYPATGKPNQWMLPVP 264

RESULT 4
US-08-776-059-31
Query Match 46.0%; Score 1285; DB 4; Length 253;
Best Local Similarity 99.6%; Pred. No. 2.4e-116;
Matches 251; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: LENTZEN, Hans
APPLICANT: ECK, Jurgen
APPLICANT: BAUR, Axel
APPLICANT: ZINKE, Holger
TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
FILE REFERENCE: 674503-2003
CURRENT APPLICATION NUMBER: US/08/776,059B
CURRENT FILING DATE: 1999-06-19
EARLIER APPLICATION NUMBER: PCT/EP96/02273
EARLIER FILING DATE: 1996-06-25
EARLIER APPLICATION NUMBER: 95109949.8
EARLIER FILING DATE: 1995-06-26
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 31
LENGTH: 253
TYPE: PRT
ORGANISM: Viscum album
US-08-776-059-31

Query Match 46.0%; Score 1285; DB 4; Length 253;
Best Local Similarity 99.6%; Pred. No. 2.4e-116;
Matches 251; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 YERLRLRVTHQTGEEVFRFTLLRDYVSSGSGFSNEIFLLRQSTIPVSDAQRFVLVELTN 60

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Db 2 YERILRWHTTGEYFRFTLLRDYVSSGSFSENEIPLRQSTIPVSDAQRFLVELTN 61
QY 61 QGSDSITAAIDVTNLYVAYAGDOSYFLRDAPRGAETHLFTGTTRSSLPFNGSYPDLER 120
Db 62 QGSDSITAAIDVTNLYVAYAGDOSYFLRDAPRGAETHLFTGTTRSSLPFNGSYPDLER 121
QY 121 YAGHRDQIPLGIDQIOLQSVTALRFFGGSTRTOARSILILQIMISEAARFNPLWRARQYI 180
Db 122 YAGHRDQIPLGIDQIOLQSVTALRFFGGSTRTOARSILILQIMISEAARFNPLWRARQYI 181
QY 181 NSGASFPLPDVYMLELTSWGQOSTQVQHSSTGCVNPNPRLAIPPGNFVTLTNVRDVIA 240
Db 182 NSGASFPLPDVYMLELTSWGQOSTQVQHSSTGCVNPNPRLAIPPGNFVTLTNVRDVIA 241
QY 241 AMLFVCGERPS 252
Db 242 AMLFVCGERPS 253

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RESULT 5

US-08-776-059-39

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; Sequence 39, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; EARLIER FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-39

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Query Match 42.9%; Score 1197; DB 4; Length 235;
Best Local Similarity 100.0%; Pred. No. 7.1e-108;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 18 FRFTLLRDYVSSGSFSENEIPLRQSTIPVSDAQRFLVELTNQGGDSITAAIDVTNLYV 77
Db 1 FRFTLLRDYVSSGSFSENEIPLRQSTIPVSDAQRFLVELTNQGGDSITAAIDVTNLYV 60
QY 78 VAYAGDOSYFLRDAPRGAETHLFTGTTRSSLPFNGSYPDLERVAGHRDQIPLGIDQIOLQ 137
Db 61 VAYAGDOSYFLRDAPRGAETHLFTGTTRSSLPFNGSYPDLERVAGHRDQIPLGIDQIOLQ 120
QY 138 SVTALRFFGGSTRTOARSILILQIMISEAARFNPLWRARQYINSGASFPLPDVYMLELET 197
Db 121 SVTALRFFGGSTRTOARSILILQIMISEAARFNPLWRARQYINSGASFPLPDVYMLELET 180
QY 198 SWGQOSTQVQHSSTGCVNPNPRLAIPPGNFVTLTNVRDVIA 252
Db 181 SWGQOSTQVQHSSTGCVNPNPRLAIPPGNFVTLTNVRDVIA 235

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RESULT 6

US-08-378-761A-77

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; Sequence 77, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D

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; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-77

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Query Match 42.7%; Score 1191.5; DB 1; Length 540;
Best Local Similarity 47.6%; Pred. No. 9.3e-107;
Matches 254; Conservative 84; Mismatches 177; Indels 19; Gaps 10;

QY 9 THQTTGEYFRFTLLRDYVSSGS-FSNEIPLL-ROSTIPVSDAQRFLVELTNQGGDSI 66
Db 13 TADATVESYTNFIRAVRSHLTGADVRRHEIPVLPNVRGLPIS--QRFLVELSNHAELSV 70
QY 67 TAAIDVTNLYVAYAGDOSYFLR-DAPRGAEE--THLFTGTTRS-SLPFNGSYPDLERVA 122
Db 71 TLALDVTNAYVVGCRAGNSAYEFHFDNQDADAETHLFTDQVNSFTFAFGNVDRLSQLG 130
QY 123 CHRDOIPLGIDQIOLQSVTALR---PGGSTRTOARSILILQIMISEAARFNPLWRARQY 179
Db 131 GLRENIELGTPLDEAISALYYSTCGTQIPTLARSFMVCIQIMISEAARFQYIEGEMRTR 190
QY 180 INSGASFPLPDVYMLELTSWGQOSTQVQHSSTGCVNPNPRLAIPPGNFVTLTNVRDVIA 239
Db 191 IRYNRSAPDESIVITLNSWGRLSTAQESNQAGAFSPQLQRRNGSKFNVDVSIPLIPI 250
QY 240 LAIMLFVCGERPSDDVRYWPLVIRPVIAD---DVTCSASEPTVIRVGRNGCMVDVDRDD 296
Db 251 IALMYRCAPPSSQ----FSLIIRPVVFNADV-CMDPEFIVIRVGRNGLCVDVTGEE 305
QY 297 FHDGNIQLWFSKSNNDNQALMTIKRDGTRIRNGSCLTITYGTAGYVVMIFDCNTAVREA 356
Db 306 FFDGNFIQLWFPCKSNNDNQALMTIKRDGTRIRNGSCLTITYGTAGYVVMIFDCNTAVREA 365
QY 357 TIWQWNGTIIINPRSNVLAASSGIKGTTLTVOITLDYTLGQWLAGNCTAPREVIYGF 416
Db 366 TRWQIWNRTIINPRSGVLVLAATNSGSKLTQVNTIYAVSQGLPTNNTPQEVTTIVGL 425
QY 417 RDLCMENSGSVVWVETCVSSQONQWALYDGSIRPKNQDOCLTCGRDSVSTVINIVSC 476
Db 426 YGMCLOANSKGVWLEDCITSEKAEQWALYADGSIRPKNQDNCLTITDANIKGTIVKILSC 485
QY 477 SAGSSGQRWVFTNEGAILNLKGLAMDVAQANPKLRIIIPATGKPNQWMLPV 530

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[illegible]

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Query Match      15.0%; Score 418; DB 2; Length 534;
Best Local Similarity 27.8%; Pred. No. 7, 6e-32;
Matches 149; Conservative 76; Mismatches 171; Indels 140; Gaps 20;

          9  THQTTGSEYFRFTLLRDYVSGS--FSNEIPL-LRQSTIPVSDAORFVLELVTNQGDSI 66
             | | | | | | | | | | | | | | | | | | | | | | | | | | | |
          16  TAGATVQSYTNFIRAVRGLTTGADVREIHPVLPNRVGLPIN--QPFILVELSNHAELSV 73
             | | | | | | | | | | | | | | | | | | | | | | | | | | | |

          67  TAAADVTNLYVVAQAGQOSYFLR-DAARGAB--TLHFTGT-TRSSLFPNGSYPDLERVA 122
             | | | | | | | | | | | | | | | | | | | | | | | | | | | |
          74  TLADVNTNAVYVVGVRAGNSAYFFHFDNDQEDAEATHLFTDVQNRYYTFAGGNVDRLEQLA 133
             | | | | | | | | | | | | | | | | | | | | | | | | | | | |

          123  GH-RDQIPGLGDIIQSVTLARF---PGSGTRTQARSILILQMTSEAAARNPILWRARQ 178
             | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Db 134 GNLRENIELGNCPLBEAISALYYSTGGTQLPTLARSFIICQIMISEAARFQVIEGEMRT 193
Qy 179 YNSGASFLPDVYMLELETSWQSQSTQVQHSSTGVNPNPRLAIPGNFVTLTNVRDVIA 238
Db 194 RIRYRRSAPDPSPVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSVYDVSILIP 253
Qy 239 SLAIMLFVCGERPSSDVRWPLVRPVI---AD-----DV 271
Db 254 IIALMVYRCAPPSS---FSLIRPVVFNADVCMDEIQLVQSGPBLKPGETVKI 309
Qy 272 TCSASEPTVRIVRNGW-----CVDVRDDDFHDCNQIQLMPSKS--- 310
Db 310 SKASGYTANYGMWQKAPGKGLKMGWINYTGSTYADDKFERFAFSLETSATTAH 369
Qy 311 ---NNDPNQLWTKRDTGRTIRNSG---CLTTYGYTAGVVMVFDCTAVREATIOWING 363
Db 370 LQINN-----LRNEDSATVFCARRFGFA-----YWG 395
Qy 364 NGTIINPRNLVLAASGINK-----TTLTVQTLDTLGO----- 398
Db 396 QGTLVSVASISSSGG 455
Qy 399 ---GWLAGNDTAPREVITYGRDL-----CMESNGGVMVETCVSSQQNQRWALY 445
Db 456 SLTWLSQEPDGTIKRLIYATSSLDGVPKRFSGSGSGDYSLT-ISSLESEDFVY 510

RESULT 11
US-07-901-707-1
; Sequence 1, Application US/07901707
; Patent No. 5376546
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Steve F.
; APPLICANT: Lane, Julie A.
; TITLE OF INVENTION: Materials Comprising and Methods of
; TITLE OF INVENTION: Composition and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; STREET: Two First National Plaza, 20 South Clark
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/901.707
; FILING DATE: 19920619
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5376546and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27129/30910
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-5750
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear

MOLECULE TYPE: protein
US-07-901-707-1

Query Match 13.9%; Score 387; DB 1; Length 267;
Best Local Similarity 40.0%; Pred. No. 2.5e-29;
Matches 102; Conservative 45; Mismatches 96; Indels 12; Gaps 8;
Qy 9 THQTGBEYFRFIFLLRDYVSSGS-FSNEIFLL-RQSTIPVSDAORFVLVELTNOGGDSI 66
Db 13 TAGATVQSYNIFRAVRGLTTGADVREHIFVLPNVRGLPIN--QRFILVELSNHAELSV 70
Qy 67 TAAIDVNLVYVAVQAGDSYFLR-DAPRGAE--THLETGT--TRSLPENGVSYPDLERYA 122
Db 71 TLALDVNTAVYVGRAGNSAYFFHPDNOEDAEAIHLTFTDVQNRVYTFAPFGGNYDRLEQLA 130
Qy 123 GH-RDQPLGIDQLIQSVTALRF---PGSSTRTOARSILILIQMISEAARFNPILWRARQ 178
Db 131 GNLRENIELGNCPLBEAISALYYSTGGTQLPTLARSFIICQIMISEAARFQVIEGEMRT 190
Qy 179 YNSGASFLPDVYMLELETSWQSQSTQVQHSSTGVNPNPRLAIPGNFVTLTNVRDVIA 238
Db 191 RIRYRRSAPDPSPVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSVYDVSILIP 250
Qy 239 SLAIMLFVCGERPSS 253
Db 251 IIALMVYRCAPPSS 265

RESULT 12
US-07-988-430-1
; Sequence 1, Application US/07988430
; Patent No. 5416202
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Lane, Julie A.
; APPLICANT: Lei, Shau-Ping
; TITLE OF INVENTION: Materials Comprising and Methods of
; TITLE OF INVENTION: Preparation and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 101
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/988,430
; FILING DATE: 19921209
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5416202and, Greta E.
; REGISTRATION NUMBER: 35302
; REFERENCE/DOCKET NUMBER: 31133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-9740
; TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 267 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-07-988-430-1

Query Match 13.9%; Score 387; DB 1; Length 267;
 Best Local Similarity 40.0%; Pred. No. 2.5e-29;
 Matches 102; Conservative 45; Mismatches 96; Indels 12; Gaps 8;
 QY 9 THQTGEEYFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGDSI 66
 Db 13 TAGATVQSYNFRVAVRGLTTGADVHEIPVLPNRVGLPIN--QRFLVELSNHAEUSV 70
 QY 67 TAAIDVTNLYVYVAYQAGDSYFLR-DAPRGAE--THLFTGT-TRSSLPFNGSYPDLERYA 122
 Db 71 TLALDVTNAYVVGVRAGNSAYFFHPDQDAEAITHLFTDVQNRVYTFAGGNYDRLEQLA 130
 QY 123 GH-RDQIPLGIDQLIQSVTALRF---PGGSTRTOARSILILIOISEAARNPILWRARQ 178
 Db 131 GNLRNIELNGPLLEAISALYYSTGTQTLPTLARSFIICIQMISEAARFYIEGEMRT 190
 QY 179 YNSGASFLPDVYMLELETSWQOQSTOVQHSSTDGVFNPNIRLAIPPGNFVTLTNVRDVIA 238
 Db 191 RIRYNRSAPDPSVITLNSWGLSTAIQESNQAFASPIQLQRNGKFSYVDVSLIP 250
 QY 239 SLAIMLFVCGERPSS 253
 Db 251 IIALMVRCAPPSS 265

RESULT 13
 US-08-218-303-16
 Sequence 16, Application US/08218303
 Patent No. 5547867
 GENERAL INFORMATION:
 APPLICANT: Kara, Bhupendra V.
 APPLICANT: Hockney, Robert C.
 APPLICANT: Fittin, John E.
 TITLE OF INVENTION: FERMENTATION PROCESS
 NUMBER OF SEQUENCES: 23
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Cushman, Darby & Cushman
 STREET: 1615 L Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20036-5601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/218,303
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/841,533
 FILING DATE: 26-FEB-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Kokulis, Paul N.
 REGISTRATION NUMBER: 16,773
 REFERENCE/DOCKET NUMBER: PNK/3893/94908/MW
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 267 amino acids

TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-218-303-16

Query Match 13.9%; Score 387; DB 1; Length 267;
 Best Local Similarity 40.0%; Pred. No. 2.5e-29;
 Matches 102; Conservative 45; Mismatches 96; Indels 12; Gaps 8;
 QY 9 THQTGEEYFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGDSI 66
 Db 13 TAGATVQSYNFRVAVRGLTTGADVHEIPVLPNRVGLPIN--QRFLVELSNHAEUSV 70
 QY 67 TAAIDVTNLYVYVAYQAGDSYFLR-DAPRGAE--THLFTGT-TRSSLPFNGSYPDLERYA 122
 Db 71 TLALDVTNAYVVGVRAGNSAYFFHPDQDAEAITHLFTDVQNRVYTFAGGNYDRLEQLA 130
 QY 123 GH-RDQIPLGIDQLIQSVTALRF---PGGSTRTOARSILILIOISEAARNPILWRARQ 178
 Db 131 GNLRNIELNGPLLEAISALYYSTGTQTLPTLARSFIICIQMISEAARFYIEGEMRT 190
 QY 179 YNSGASFLPDVYMLELETSWQOQSTOVQHSSTDGVFNPNIRLAIPPGNFVTLTNVRDVIA 238
 Db 191 RIRYNRSAPDPSVITLNSWGLSTAIQESNQAFASPIQLQRNGKFSYVDVSLIP 250
 QY 239 SLAIMLFVCGERPSS 253
 Db 251 IIALMVRCAPPSS 265

RESULT 14
 US-08-425-336-1
 Sequence 1, Application US/08425336
 Patent No. 5621083
 GENERAL INFORMATION:
 APPLICANT: Better, Marc D.
 APPLICANT: Carroll, Stephen F.
 APPLICANT: Studnika, Gary M.
 TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
 NUMBER OF SEQUENCES: 140
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 STREET: 6300 Sears Tower, 233 South Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 ZIP: 60606-6402
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/425,336
 FILING DATE: 18-APR-1995
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/064,691
 FILING DATE: 12-MAY-1993
 APPLICATION NUMBER: US 07/901,707
 FILING DATE: 19-JUN-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/787,567
 FILING DATE: 04-NOV-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Thomas C.
 REGISTRATION NUMBER: P-36,989
 REFERENCE/DOCKET NUMBER: 31394
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 312/474-0448
 TELEX: 25-3856

GenCore version 5.1.4 p5 4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 9.24122 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-6
Perfect score: 1420
Sequence: 1 DDVTCASAEPTVRIVGRNGM.....RRIIYPATGPNQMWLPVP 263

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1406	99.0	263	10	US-09-347-064-10
2	1406	99.0	267	10	US-09-347-064-4
3	184	13.0	145	12	US-10-074-527-5
4	146.5	10.3	491	10	US-09-770-621-8
5	136.5	9.6	135	9	US-09-973-457-5
6	136.5	9.6	135	12	US-10-074-527-6
7	135	9.5	480	10	US-09-770-621-5
8	135	9.5	492	10	US-09-770-621-4
9	135	9.5	492	10	US-09-770-621-7
10	107.5	7.6	612	12	US-10-001-851-25
11	91.5	6.4	1781	9	US-09-995-749A-2
12	90	6.3	509	12	US-10-072-152-6
13	87.5	6.2	2353	10	US-09-797-862-33
14	87	6.1	434	10	US-09-770-621-6
15	86.5	6.1	295	10	US-09-815-242-11833
16	84	5.9	770	10	US-09-815-656-31
17	83	5.8	559	12	US-10-001-851-23
18	82.5	5.8	626	12	US-10-001-851-27
19	82	5.8	44	10	US-09-924-358-30

20	82	5.8	44	10	US-09-924-358-31	Sequence 31, Appl
21	82	5.8	44	10	US-09-924-358-32	Sequence 32, Appl
22	81	5.7	425	9	US-09-813-398-32	Sequence 32, Appl
23	81	5.7	579	12	US-10-001-851-29	Sequence 29, Appl
24	79	5.6	559	12	US-10-001-851-24	Sequence 24, Appl
25	77.5	5.5	356	9	US-09-976-059-8	Sequence 8, Appl
26	77.5	5.5	1226	10	US-09-815-242-13646	Sequence 13646, A
27	77	5.4	758	10	US-09-996-194-13	Sequence 13, Appl
28	77	5.4	1229	10	US-09-815-242-5818	Sequence 5818, Ap
29	77	5.4	1229	10	US-09-815-242-12946	Sequence 12946, A
30	76.5	5.4	873	10	US-09-815-242-11969	Sequence 11969, A
31	76.5	5.4	1356	9	US-10-077-111-10	Sequence 10, Appl
32	76	5.4	492	10	US-09-801-368-192	Sequence 192, App
33	76	5.4	559	12	US-10-001-851-20	Sequence 20, Appl
34	76	5.4	559	12	US-10-001-851-21	Sequence 21, Appl
35	76	5.4	559	12	US-10-001-851-22	Sequence 22, Appl
36	76	5.4	561	10	US-09-925-301-1006	Sequence 1006, Ap
37	76	5.4	692	9	US-09-826-115-16	Sequence 16, Appl
38	76	5.4	1599	9	US-10-092-880-9	Sequence 9, Appl
39	76	5.4	4545	10	US-09-873-403-2	Sequence 2, Appl
40	75.5	5.3	207	10	US-09-780-717-26	Sequence 26, Appl
41	75	5.3	192	10	US-09-967-347-4	Sequence 4, Appl
42	75	5.3	435	9	US-10-000-512-18	Sequence 18, Appl
43	75	5.3	678	10	US-09-801-368-314	Sequence 314, App
44	75	5.3	1477	9	US-10-092-880-4	Sequence 4, Appl
45	74	5.2	394	9	US-09-738-626-5219	Sequence 5219, Ap

ALIGNMENTS

RESULT 1

US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-10

Query Match 99.0%; Score 1406; DB 10; Length 263;
Best Local Similarity 98.9%; Pred. No. 3.8e-125;
Matches 260; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy	1	DDVTCASAEPTVRIVGRNGMCDVDRDDDFHGNQIQWFSKSNNDPNQWTKIKRDGTIRS	60
Db	1	DDVTCASAEPTVRIVGRNGMCDVDRDDDFHGNQIQWFSKSNNDPNQWTKIKRDGTIRS	60
Qy	61	NGSCLTITGYTAGVYVMTFDCNTAVREATIWIWNGTTIIPRNLVLAASSGIKGTTLT	120
Db	61	NGSCLTITGYTAGVYVMTFDCNTAVREATIWIWNGTTIIPRNLVLAASSGIKGTTLT	120
Qy	121	VQTLDTLGGQWLAGNDTAPREVITYGFRDLCSMGSGSVWVETCVSSQONQWALYGDG	180
Db	121	VQTLDTLGGQWLAGNDTAPREVITYGFRDLCSMGSGSVWVETCVSSQONQWALYGDG	180

NAME: Bugaisky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 491 amino acids
TYPE: amino acid
STRANDEDNESS: No. US20010024815A1 Relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: M64551
US-09-770-621-8

Query Match 10.3%; Score 146.5; DB 10; Length 491;
Best Local Similarity 27.2%; Pred. No. 7e-06; Indels 57; Gaps
Matches 49; Conservative 20; Mismatches 54

QY 7 ASEP-----TVRIVGRNGMCDVDRDDFDHGNQIQLPWPSKNNDPNQLMTIKRD 55
Db 354 S:EP:XXXXXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQWDCHSGT--NQWAAATDA 410
QY 56 GTIRNSG-SCLTTYGYTAGVVMIFDCNTAVREATIWIWNGTIIINPRSNLVLAASSGI 114
Db 411 GEURVYGDKLDAAAGTNGSKVQIYSCWGGDNQK--WRLNSDGSVGVQSGLCCLDA---- 464
QY 115 KGTTLVTQTLDTLGGWLAGNDTAPREVTIYGFRLDCWESNGGSGVWVETCVSSQONRW 174
Db 465 -----VGNQTA-----NGTLIQLYTC-SNGSNRW 488

RESULT 5

US-09-973-457-5
Sequence 5, Application US/09973457
Patent No. US20020164746A1

GENERAL INFORMATION:
APPLICANT: Kapeller-Libermann, Rosana
TITLE OF INVENTION: 47174, A NOVEL HUMAN GLYCOSYLTRANSFERASE
FILE REFERENCE: 10448-099001
CURRENT APPLICATION NUMBER: US/09/973,457
PRIOR FILING DATE: 2001-10-09
PRIOR APPLICATION NUMBER: 60/238,849
NUMBER OF SEQ ID NOS: 6
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5

LENGTH: 135
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Consensus sequence
US-09-973-457-5

Query Match 9.6%; Score 136.5; DB 9; Length 135;
Best Local Similarity 30.5%; Pred. No. 1.1e-05;
Matches 43; Conservative 18; Mismatches 59; Indels 21; Gaps

QY 14 IVGRNGMCDV--RDDDFHDGNOIQLPWPSKNNDPNQLWTI---KRDGTTIRNSGS-CLTT 67
Db 7 IGGNTGLCLDVNGNSKSDGNVPVQLWDCGGG--NQLWKLTYNESDGAIRNSDCLTV 64
QY 68 YGTAGVVMIFDCNTAVR--EATIWQWNGTIIINPRSNLVLAASSGIGKTTITVQTL 125
Db 65 NG-----TVTLSCDGTGDKGNQKWEVKNKDGRTIRNPK-NSKKGVDG-----LCLDVKD 113
QY 126 YTLGGWLAGNDTAPREVTIY 146
Db 114 GNKVQLWTCNGSDAPNQKWIF 134

RESULT 6

US-10-074-527-6
Sequence 6, Application US/10074527
Patent No. US20020142426A1

GENERAL INFORMATION:
APPLICANT: Olandt, Peter J.
APPLICANT: Meyers, Rachel E.
APPLICANT: Galvin, Katherine A.
APPLICANT: Millennium Pharmaceuticals Inc.
TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
FILE REFERENCE: MPI2001-018P1RCP1(M)
CURRENT APPLICATION NUMBER: US/10/074,527
CURRENT FILING DATE: 2002-02-12
PRIOR APPLICATION NUMBER: 60/269202
PRIOR FILING DATE: 2001-02-15
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 135
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: consensus
US-10-074-527-6

Query Match 9.6%; Score 136.5; DB 12; Length 135;
Best Local Similarity 30.5%; Pred. No. 1.1e-05;
Matches 43; Conservative 18; Mismatches 59; Indels 21; Gaps 8;

QY 14 IVGRNGMCDV--RDDDFHDGNOIQLPWPSKNNDPNQLWTI---KRDGTTIRNSGS-CLTT 67
Db 7 IGGNTGLCLDVNGNSKSDGNVPVQLWDCGGG--NQLWKLTYNESDGAIRNSDCLTV 64
QY 68 YGTAGVVMIFDCNTAVR--EATIWQWNGTIIINPRSNLVLAASSGIGKTTITVQTL 125
Db 65 NG-----TVTLSCDGTGDKGNQKWEVKNKDGRTIRNPK-NSKKGVDG-----LCLDVKD 113
QY 126 YTLGGWLAGNDTAPREVTIY 146
Db 114 GNKVQLWTCNGSDAPNQKWIF 134

RESULT 7

US-09-770-621-5
Sequence 5, Application US/09770621
Patent No. US20010024815A1

GENERAL INFORMATION:
APPLICANT: Mntyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Palohelmo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
TITLE OF INVENTION: 39
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:

ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 New York Ave., N.W. Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,621
FILING DATE:

QY	DB	Score	DB 10;	Length	480;
QY	12	VRIVGRGMCVDVDDPHDGNQIQLPWPSKNNDPNQLWTIKRDGTIRNGS-CLTTYGY 70	9.5%;	Score 135;	DB 10; Length 480;
Db	370	IRGVASH-RCIDVPGNTADGTQVQLYDCHSGS--NQWYTTSSGFRIFGNKCLDAGGS 426	33.0%;	Pred. No. 8.3e-05;	Indels 6; Gaps 4;
QY	71	TAGVYVIFDCNTAVREATIWIQWNGHIIIPRSLNVLAASSGIKGTTLTVQ 122	9.5%;	Score 135;	DB 10; Length 480;
Db	427	SNGAVVQIYSCWGGANQK--WELRADGTIVGVQSLCLDVAVGSGTNGTRLQ 476	33.0%;	Pred. No. 8.3e-05;	Indels 6; Gaps 4;
<p>Query Match 9.5%; Score 135; DB 10; Length 480;</p> <p>Best Local Similarity 33.0%; Pred. No. 8.3e-05;</p> <p>Matches 37; Conservative 17; Mismatches 52; Indels 6; Gaps 4;</p>					
<p>US-09-770-621-5</p> <p>Query Match 9.5%; Score 135; DB 10; Length 480;</p> <p>Best Local Similarity 33.0%; Pred. No. 8.3e-05;</p> <p>Matches 37; Conservative 17; Mismatches 52; Indels 6; Gaps 4;</p>					
<p>US-09-770-621-4</p> <p>Query Match 9.5%; Score 135; DB 10; Length 492;</p> <p>Best Local Similarity 33.0%; Pred. No. 8.5e-05;</p> <p>Matches 37; Conservative 17; Mismatches 52; Indels 6; Gaps 4;</p>					

Query Match 6.2%; Score 87.5; DB 10; Length 2353;
Best Local Similarity 23.7%; Pred. No. 20;
Matches 61; Conservative 41; Mismatches 94; Indels 61; Gaps 12;
QY 12 VRIVGRNMCVDVDDDFHDGQ---IQLWPSKSN---DPNQLWTKRGTGIRNSGSC 64
DB 1251 VEFVGKNGATVSAKT---NNGKHVTVDVAEAKVGDGLEKTDGKIKLVQNT---DGN 1305
QY 65 LTTYGYTAGVYVIFDCNTAVREATIWIQWNGTIINPRSNLVLAAASGKIGTTLTVQTL 124
DB 1306 LLTVDATKGASVAKGEFNAVTTDAATQ---GTANERGVVVKSGNGATATE-TDKKK 1360
QY 125 DYLQGGWLAGNDTA-----PRE-----VTYGRDLCEMN 156
DB 1361 VATVDVAKAINDAATFVKVENDSATIDDSPTDDGANDALKAGDTLLKAGKNLVKXD 1420
QY 157 GGSVWVETCVSSQONRWALYDGSIRPKQODQCLTCGRDSVSTVINIVCSAGSSGOR 216
DB 1421 G-----KNITFALNDLSVKSATVSDK-LSLGTN--GNKVNITSDTKGLNFAK 1465
QY 217 WVFTNEGAILNLKGLA 233
DB 1466 DSKTGDANIHL-NGIA 1481
RESULT 14
US-09-770-621-6
; Sequence 6, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M nyl, Arja
; APPLICANT: Vehmaanper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600

Query Match 6.3%; Score 90; DB 12; Length 509;
Best Local Similarity 21.3%; Pred. No. 1.6;
Matches 57; Conservative 32; Mismatches 102; Indels 76; Gaps 12;
QY 14 IVGR-NGMCMVDVDDDFHDGQNIQLWPSKGNNDPNQLWTKRGT-----IRNSGCLTT 67
DB 88 IVNRHSGKALDVFPERSADGANIVQW--DSNGRSNQOQWTTIOQVGSYKIVSRHSGKALEV 145
QY 68 YGTAGVYVIFDCNTAVREATIWIQWNGTIINPRSNLVLAAASGKIGTTLTVQTLDT 127
DB 146 FNHS-----NONGANVQWQDFGNP---NOLWNIVEVGG-----QAHDFS 183
QY 128 --LGOQWLAGNDTAPREVITYGFRDLQWESNGSGVWVETCVSSQO-----NOR 173
DB 184 KPLGYASMGTTG-----GOGGRVEAYATGSQLKLDLDRSRNNPNQ 228
QY 174 WALYDGSIRPKQODQCLTC--GRDSVSTVINIVCSAGSGO-----RWFTNEGAI 225
DB 229 LTVVTKITLQNSDDKIEVKHNGRAHEIRNLISIIQGTGRGFDGTLINAHNVIV 288
QY 226 LNLK-----NGLANDVAQANPKL 243
DB 289 RNLSHHVRAGSGEGTSLIEVTQGSKN 315
RESULT 13
US-09-797-862-33
; Sequence 33, Application US/09797862
; Patent No. US20020102276A1
; GENERAL INFORMATION:
; APPLICANT: PEAK, IAN RICHARD ANSELM
; APPLICANT: JENNINGS, MICHAEL PAUL
; APPLICANT: MOXON, E. RICHARD
; TITLE OF INVENTION: NOVEL SURFACE ANTIGEN
; FILE REFERENCE: 065064/0134
; CURRENT APPLICATION NUMBER: US/09/797,862
; CURRENT FILING DATE: 2001-05-03
; PRIOR APPLICATION NUMBER: PCT/AU98/01031
; PRIOR FILING DATE: 1998-12-14
; PRIOR APPLICATION NUMBER: GB 9726398.2
; PRIOR FILING DATE: 1997-12-12
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 2353
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-797-862-33

TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 434 amino acids
TYPE: amino acid
STRANDEDNESS: No. US20010024815A1 Relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: UO8894
US-09-770-621-6

Query Match 6.1%; Score 87; DB 10; Length 434;
Best Local Similarity 36.2%; Pred. No. 2.5;
Matches 25; Conservative 9; Mismatches 31; Indels 4; Gaps 3;
QY 11 TVRIVGRNGMCDVDRDDFDHGNQIQLPWPSKNNNDPNOLWTIKRDGTIRSGS-CLTTYG 69
Db 369 TIKGVG-SGRCLDVPNASTSDGVQLQW--DCHGGTNOQWTVTDSQELRVYGNKCLDAAG 425
QY 70 YTAGVYVMI 78
Db 426 TNGGTKVQI 434

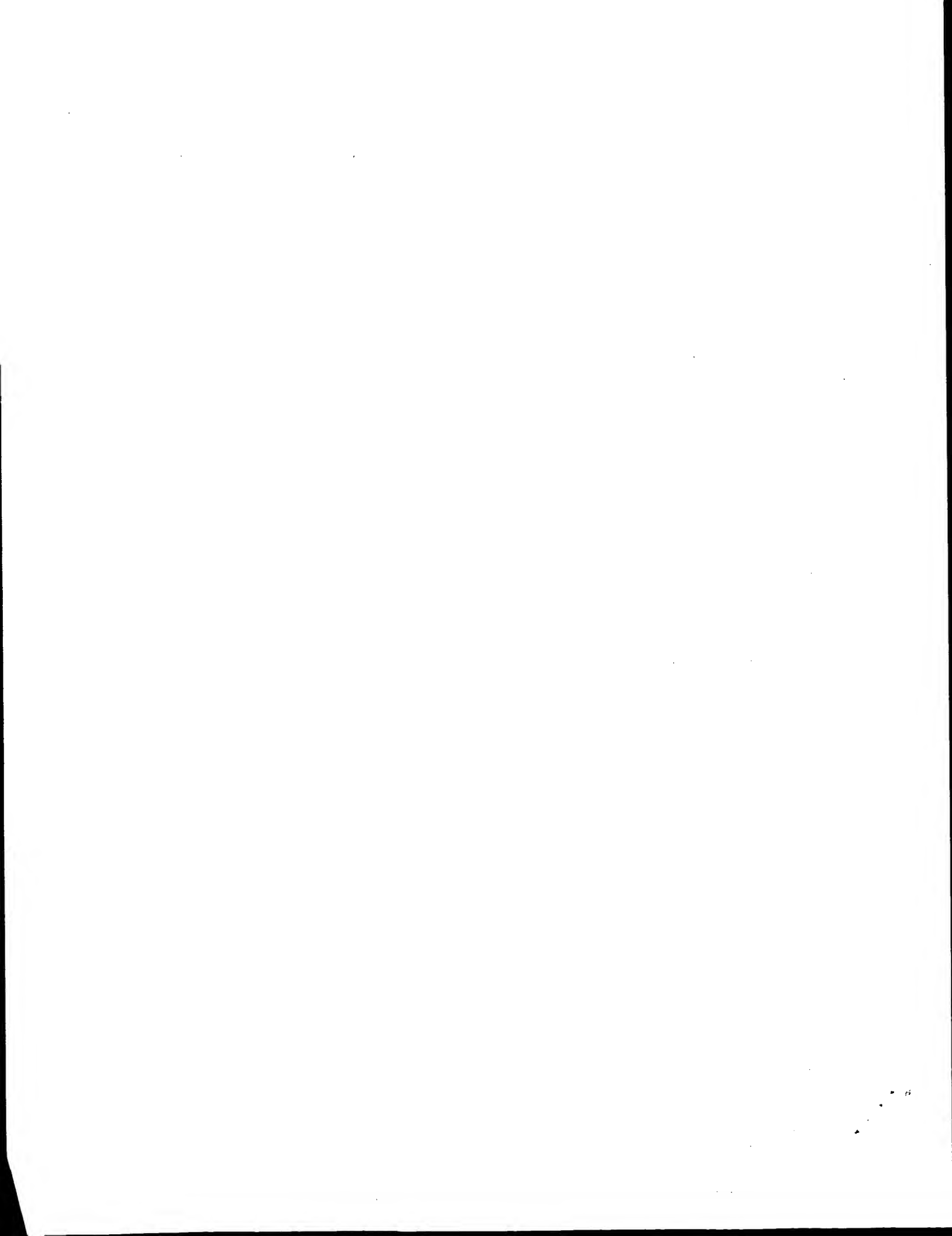
RESULT 15

US-09-815-242-11833
Sequence 11833, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 1410
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11833
LENGTH: 295
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-815-242-11833

Query Match 6.1%; Score 86.5; DB 10; Length 295;
Best Local Similarity 20.0%; Pred. No. 1.7;
Matches 46; Conservative 34; Mismatches 91; Indels 59; Gaps 8;
QY 2 DVTCSASEPTVRIVGRNGMCDVDRDDFDHGNQIQLPWPSKNNNDPNOLWTIKRDGTIRSN 61
Db 37 DVNAAALEETROLLASSGVRVSTAVVDVADREQVQAWADKAASEHGEVNLIFNNAGVAHA 96

QY 62 GSCLTTYGYTAGVYVMI FDCNTAVREATIQI-----WNGNTIINPRSNLVL 108
Db 97 G---TVEGSDYSEYEWIMNIN-----FWGVVNGTKAFIPLHLKASGNHGVYVNVSSVFG 146
QY 109 AASSGIKGTTLTVQTLDTYTLGQGWLAGNDTAPREVITYGF-----RDLCMESNG----- 157
Db 147 FAQPGMSAYNAT-----KYAVRGFTESLRQELDMEDSGVSASCV 185
QY 158 --GSVWVETCVSSQONORWA-LYGDGSIIRPK-QNODCLTCGRDSVSTVI 203
Db 186 HPGGIKTNIAKTARMNESMAKVGTQAPDKAREQFNDOLLRTTPEKAQVI 235

Search completed: March 22, 2003, 10:37:20
Job time : 12.2412 secs



GenCore version 5.1.4 p5.4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 8.11728 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-6

Perfect score: 1420

Sequence: 1 DDVTCASEPTVRIYGRNGM.....RRRIIYPATGKPNQMWLPVP 263

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/2/iaa/5A COMB.pcp.*
2: /cgn2_6/prodata/2/iaa/5B COMB.pcp.*
3: /cgn2_6/prodata/2/iaa/6A COMB.pcp.*
4: /cgn2_6/prodata/2/iaa/6B COMB.pcp.*
5: /cgn2_6/prodata/2/iaa/PCTUS COMB.pcp.*
6: /cgn2_6/prodata/2/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1406	99.0	263	US-08-776-059-43	Sequence 43, Appl
2	1406	99.0	264	US-08-776-059-33	Sequence 33, Appl
3	1406	99.0	564	US-08-776-059-35	Sequence 35, Appl
4	737	56.1	540	US-08-378-761A-77	Sequence 77, Appl
5	737	56.1	540	US-08-485-286-77	Sequence 77, Appl
6	195	13.7	293	US-09-512-342-14	Sequence 14, Appl
7	152	10.7	132	US-09-159-106-15	Sequence 15, Appl
8	152	10.7	435	US-09-159-106-11	Sequence 11, Appl
9	146.5	10.3	491	US-08-468-812-8	Sequence 8, Appl
10	146.5	10.3	491	US-08-590-563-8	Sequence 8, Appl
11	146	10.3	127	US-08-392-828C-39	Sequence 39, Appl
12	146	10.3	127	US-08-330-945-39	Sequence 39, Appl
13	135	9.5	480	US-08-468-812-5	Sequence 5, Appl
14	135	9.5	480	US-08-590-563-5	Sequence 5, Appl
15	135	9.5	492	US-08-468-812-4	Sequence 4, Appl
16	135	9.5	492	US-08-468-812-7	Sequence 7, Appl
17	135	9.5	492	US-08-590-563-4	Sequence 4, Appl
18	135	9.5	492	US-08-590-563-7	Sequence 7, Appl
19	124.5	8.8	507	US-09-130-337A-25	Sequence 25, Appl
20	98.5	6.9	420	US-08-282-197C-63	Sequence 63, Appl
21	98.5	6.9	420	US-08-282-197C-66	Sequence 66, Appl
22	90	6.3	509	US-09-198-955A-6	Sequence 6, Appl
23	90	6.3	509	US-09-694-531-6	Sequence 6, Appl
24	89.5	6.3	419	US-08-282-197C-64	Sequence 64, Appl
25	89.5	6.3	419	US-08-282-197C-67	Sequence 67, Appl
26	87.5	6.2	1912	US-08-409-995-4	Sequence 4, Appl
27	87.5	6.2	1912	US-08-685-467-4	Sequence 4, Appl

RESULT 1

US-08-776-059-43

; Sequence 43, Application US/08776059B

; Patent No. 6271368

; GENERAL INFORMATION:

; APPLICANT: LENTZEN, Hans

; APPLICANT: ECK, Jurgen

; APPLICANT: BAUR, Axel

; APPLICANT: ZINKE, Holger

; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)

; FILE REFERENCE: 674503-2003

; CURRENT APPLICATION NUMBER: US/08/776,059B

; CURRENT FILING DATE: 1999-06-19

; EARLIER APPLICATION NUMBER: PCT/EP96/02273

; EARLIER FILING DATE: 1996-06-25

; EARLIER APPLICATION NUMBER: 95109949.8

; EARLIER FILING DATE: 1995-06-26

; NUMBER OF SEQ ID NOS: 56

; SOFTWARE: PatentIn ver. 2.0

; SEQ ID NO 43

; LENGTH: 263

; TYPE: PRT

; ORGANISM: Viscum album

; US-08-776-059-43

Query Match 99.0%; Score 1406; DB 4; Length 263;

Best Local Similarity 98.9%; Pred. No. 5e-139;

Matches 260; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DDVTCASEPTVRIYGRNGMCDVDRDDHNGNIOIOLWPSKSNNDPNQIWKEDGTIRS 60

Db 1 DDVTCASEPTVRIYGRNGMCDVDRDDHNGNIOIOLWPSKSNNDPNQIWKEDGTIRS 60

Qy 61 NGSCLTITGYTAGVYVMIEDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKGTTLT 120

Db 61 NGSCLTITGYTAGVYVMIEDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKGTTLT 120

Qy 121 VQTLDTYTLGQGLAGNDTAPREVITYGFRDLCEMESNGSGVWVETCVSSQONQWALYGDG 180

Db 121 VQTLDTYTLGQGLAGNDTAPREVITYGFRDLCEMESNGSGVWVETCVSSQONQWALYGDG 180

Qy 181 SIRPQNQDQCLTCGRDSTVTINIVSCSAGSGGQWRVFTNEGAILNLKGLAMDVAQAN 240

Db 181 SIRPQNQDQCLTCGRDSTVTINIVSCSAGSGGQWRVFTNEGAILNLKGLAMDVAQAN 240

Qy 241 PKLRIIIYPATGKPNQMWLPVP 263

Db 241 PKLRIIIYPATGKPNQMWLPVP 263

Sequence 33, Appl
Sequence 4, Appl
Sequence 33, Appl
Sequence 36, Appl
Sequence 6, Appl
Sequence 6, Appl
Sequence 47, Appl
Sequence 52, Appl
Sequence 31, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 9, Appl
Sequence 9, Appl
Sequence 8, Appl
Sequence 27, Appl

ALIGNMENTS

FILE REFERENCE: 4693.204-US
CURRENT APPLICATION NUMBER: US/09/159,106
CURRENT FILING DATE: 1998-09-23
EARLIER APPLICATION NUMBER: 0427/96
EARLIER FILING DATE: 1996-12-04
EARLIER APPLICATION NUMBER: 0885/96
EARLIER FILING DATE: 1996-08-23
EARLIER APPLICATION NUMBER: PCT/DK97/00160
EARLIER FILING DATE: 1997-04-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 15
LENGTH: 132
TYPE: PRT
ORGANISM: Oerskovia xanthineolytica
US-09-159-106-15

Query Match 10.7%; Score 152; DB 4; Length 132;
Best Local Similarity 36.3%; Pred. No. 2.3e-08;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 5;
QY 18 NGMCVDVDRDDFHDGQIQQLWPSKSNNDPNQLWTIKRDGTTIRNSGCLTTY--GYTAGVY 75
DB 14 NGMCVDVDPWADPTDGNPVQIVTCGN--AAQTWTRGSDGTVRALGKCLDVRDGGSTTRGAA 71
QY 76 VMIFDCNTAVREATIQTW----GNGTTINPRSNLVLAASSGI---KGTTLTVQTLDTL 128
DB 72 VQVWTCN-----GTGAQKWAYDAGSKALRNPSQGLCLDGTGAPLRDQGLQTLQWTCNGTT 126
QY 129 GQGW 132
DB 127 AQOW 130

RESULT 8

US-09-159-106-11
Sequence 11, Application US/09159106
Patent No. 6284509
GENERAL INFORMATION:
APPLICANT: Ferrer, Pau
APPLICANT: Diers, Ivan
APPLICANT: Halkier, Torben
APPLICANT: Hedegaard, Lisbeth
TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
FILE OF INVENTION: Activity
FILE REFERENCE: 4693.204-US
CURRENT APPLICATION NUMBER: US/09/159,106
CURRENT FILING DATE: 1998-09-23
EARLIER APPLICATION NUMBER: 0427/96
EARLIER FILING DATE: 1996-12-04
EARLIER APPLICATION NUMBER: 0885/96
EARLIER FILING DATE: 1996-08-23
EARLIER APPLICATION NUMBER: PCT/DK97/00160
EARLIER FILING DATE: 1997-04-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 11
LENGTH: 435
TYPE: PRT
ORGANISM: Oerskovia xanthineolytica
US-09-159-106-11

Query Match 10.7%; Score 152; DB 4; Length 435;
Best Local Similarity 36.3%; Pred. No. 1.3e-07;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 5;
QY 18 NGMCVDVDRDDFHDGQIQQLWPSKSNNDPNQLWTIKRDGTTIRNSGCLTTY--GYTAGVY 75
DB 317 NGMCVDVDPWADPTDGNPVQIVTCGN--AAQTWTRGSDGTVRALGKCLDVRDGGSTTRGAA 374
QY 76 VMIFDCNTAVREATIQTW----GNGTTINPRSNLVLAASSGI---KGTTLTVQTLDTL 128
DB 375 VQVWTCN-----GTGAQKWAYDAGSKALRNPSQGLCLDGTGAPLRDQGLQTLQWTCNGTT 429

QY 129 GQGW 132
DB 430 AQOW 433

RESULT 9

US-08-468-812-8
Sequence 8, Application US/08468812
Patent No. 5935836
GENERAL INFORMATION:
APPLICANT: Vehmaanper, Jari
APPLICANT: M ntyl, Arja
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lantinen, Tarja
APPLICANT: Kristo, Paula
TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
NUMBER OF INVENTION: of Use
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,812
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Larry B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 491 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: M64551
US-08-468-812-8

Query Match 10.3%; Score 146.5; DB 2; Length 491;
Best Local Similarity 27.2%; Pred. No. 5.9e-07;
Matches 49; Conservative 20; Mismatches 54; Indels 57; Gaps 8;
QY 7 ASEP-----TVRIVGRNGMCMVDVDRDDFHDGQIQQLWPSKSNNDPNQLWTIKRD 55
DB 354 SSEPPXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQWDCHSGT--NQQWAATDA 410
QY 56 GTIRNSG-SCLTYGYTAGVYVIMFDCNTAVREATIQTWINGNTIINPRSNLVLAASSGI 114

Db 411 GELRVYGGKCLDAAGTSNGSKVQIYSCWGGDNQK--WRLNSDGSVVGVSGLCLDA----- 464
QY 115 KGTTLVTQTLDTYLGQGLAGNDTAPREVTIYGFRLDLCMESNGSGVWVETCVSSQONRW 174
Db 465 -----VNGNTA-----NGTLIQLYTC-SNGSNQRW 489

RESULT 10

US-08-590-563-8
; Sequence 8, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M nyl, Arja
; APPLICANT: Vehmaamer, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirko
; APPLICANT: Lahtinen, Taria
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 08-JUN-1995
; CLASSIFICATION: 536

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551

US-08-590-563-8

Query Match 10.3%; Score 146.5; DB 4; Length 491;
Best Local Similarity 27.2%; Pred. No. 5.9e-07;
Matches 49; Conservative 20; Mismatches 54; Indels 57; Gaps 8;
QY 7 ASEP-----TVIRVGRNGMCDVDDDFHGNQIQLWFSKSNNDPNQLWTIKRD 55

Db 354 SSEPPXXXXXADGGQIKGVG-SGRCLDVPDASTDGTQLWDCHSGT--NQWAAATDA 410
QY 56 GTIRSG-SCLTGYTAGVYVIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGI 114
Db 411 GELRVYGGKCLDAAGTSNGSKVQIYSCWGGDNQK--WRLNSDGSVVGVSGLCLDA----- 464
QY 115 KGTTLVTQTLDTYLGQGLAGNDTAPREVTIYGFRLDLCMESNGSGVWVETCVSSQONRW 174
Db 465 -----VNGNTA-----NGTLIQLYTC-SNGSNQRW 489

RESULT 11

US-08-392-828C-39
; Sequence 39, Application US/08392828C
; Patent No. 5795962
; GENERAL INFORMATION:
; APPLICANT: IWANAGA, SADAOKI
; APPLICANT: MUTA, TATSUSHI
; APPLICANT: SEKI, NORIYAKI
; APPLICANT: ODA, TOSHIO
; TITLE OF INVENTION: NOVEL POLYPEPTIDE AND DNA ENCODING
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HURWITZ &
; ADDRESS: THIBEAULT
; STREET: 53 STATE STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02109

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/392,828C
; FILING DATE: 28-FEB-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, PAULA A
; REGISTRATION NUMBER: 32,503
; REFERENCE/DOCKET NUMBER: FJN-033
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-7000
; TELEFAX: (617) 248-7100

INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..127
; OTHER INFORMATION: /note= "XLN A SEQUENCE (FIGURE 4)"

US-08-392-828C-39

Query Match 10.3%; Score 146; DB 1; Length 127;
Best Local Similarity 28.0%; Pred. No. 9.2e-08;
Matches 46; Conservative 19; Mismatches 53; Indels 46; Gaps 7;

QY 12 VRIVGRNGMCDVDDDFHGNQIQLWFSKSNNDPNQLWTIKRDGTIRSG-SCLTGY 70
Db 6 IKGVG-SGRCLDVPDASTDGTQLWDCHSGT--NQWAAATDAGELRVYGGKCLDAAGT 62
QY 71 TAGVYVIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIKGTTLTVQTLDTYLGQ 130
Db 63 SNGSKVQIYSCWGGDNQK--WRLNSDGSVVGVSGLCLDA----- 100

QY 131 GWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCVSSQQNRW 174
Db 101 ---VNGTGA-----NGTLIQLYTC-SNGSNQRW 124

RESULT 12
US-09-330-945-39
Sequence 39, Application US/09330945
Patent No. 6077946
GENERAL INFORMATION:
APPLICANT: IWANAGA, SADAOKI
APPLICANT: MUTA, TATSUSHI
APPLICANT: SEKI, NORIYAKI
APPLICANT: ODA, TOSHIO
TITLE OF INVENTION: DNA ENCODING HORSESHOE CRAB
TITLE OF INVENTION: AMEBOCYTE LYSATE FACTOR G SUBUNIT A
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HURWITZ &
ADDRESS: THIBEAULT, LLP
STREET: 125 HIGH STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/330,945
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/119,995
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMUND R
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: FUN-032DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..127
OTHER INFORMATION: /note= "XLN A SEQUENCE (FIGURE 4)"
US-09-330-945-39

Query Match 10.3%; Score 146; DB 3; Length 127;
Best Local Similarity 28.0%; Pred. No. 9.2e-08;
Matches 46; Conservative 19; Mismatches 53; Indels 46; Gaps 7;

QY 12 VRIVGRMGCVDDVDDPHDGNQIQLPWPSKSNPNQLWTIKRDGTIRNSG-SCLTTVGY 70
Db 6 IKGVG-SRCLDVPDASTSDGTQLQLWDCHSGT--NQQWAATDAGELRVYGDKCLDAAGT 62

QY 71 TAGVVMIFDCNTAVREATIQWINGNTIINPRSNLVLAASSGKIGTTLTVQ 130
Db 63 SNGSKVQIYSCWGGDNQK--WELNSDGSVWGQSGLCIDA----- 100

QY 131 GWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCVSSQQNRW 174
Db 101 ---VNGTGA-----NGTLIQLYTC-SNGSNQRW 124

RESULT 13
US-08-468-812-5
Sequence 5, Application US/08468812
Patent No. 5935836
GENERAL INFORMATION:
APPLICANT: Vehmaanper, Jari
APPLICANT: M ntyl, Arja
APPLICANT: Pagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Palohelmo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
APPLICANT: Kristo, Paula
TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
TITLE OF INVENTION: of Use
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,812
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/292,001
FILING DATE: 29-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Larry B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: AM50
US-08-468-812-5

Query Match 9.5%; Score 135; DB 2; Length 480;
Best Local Similarity 33.0%; Pred. No. 9e-06;
Matches 37; Conservative 17; Mismatches 52; Indels 6; Gaps 4;

QY 12 VRIVGRMGCVDDVDDPHDGNQIQLPWPSKSNPNQLWTIKRDGTIRNSG-SCLTTVGY 70
Db 370 IRGVASN-RCIDVPNGNTADGTQQLYDCHSGS--NQQWTVSSGEFIFGNKCLDAGS 426

QY 71 TAGVVMIFDCNTAVREATIQWINGNTIINPRSNLVLAASSGKIGTTLTVQ 122
Db 427 SNGAVVQIYSCWGGANQK--WELRADGTIVGVQSGLCILDVAGGVTGNGTRLQ 476

RESULT 14

US-08-590-563-5
; Sequence 5, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaaper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
US-08-590-563-5

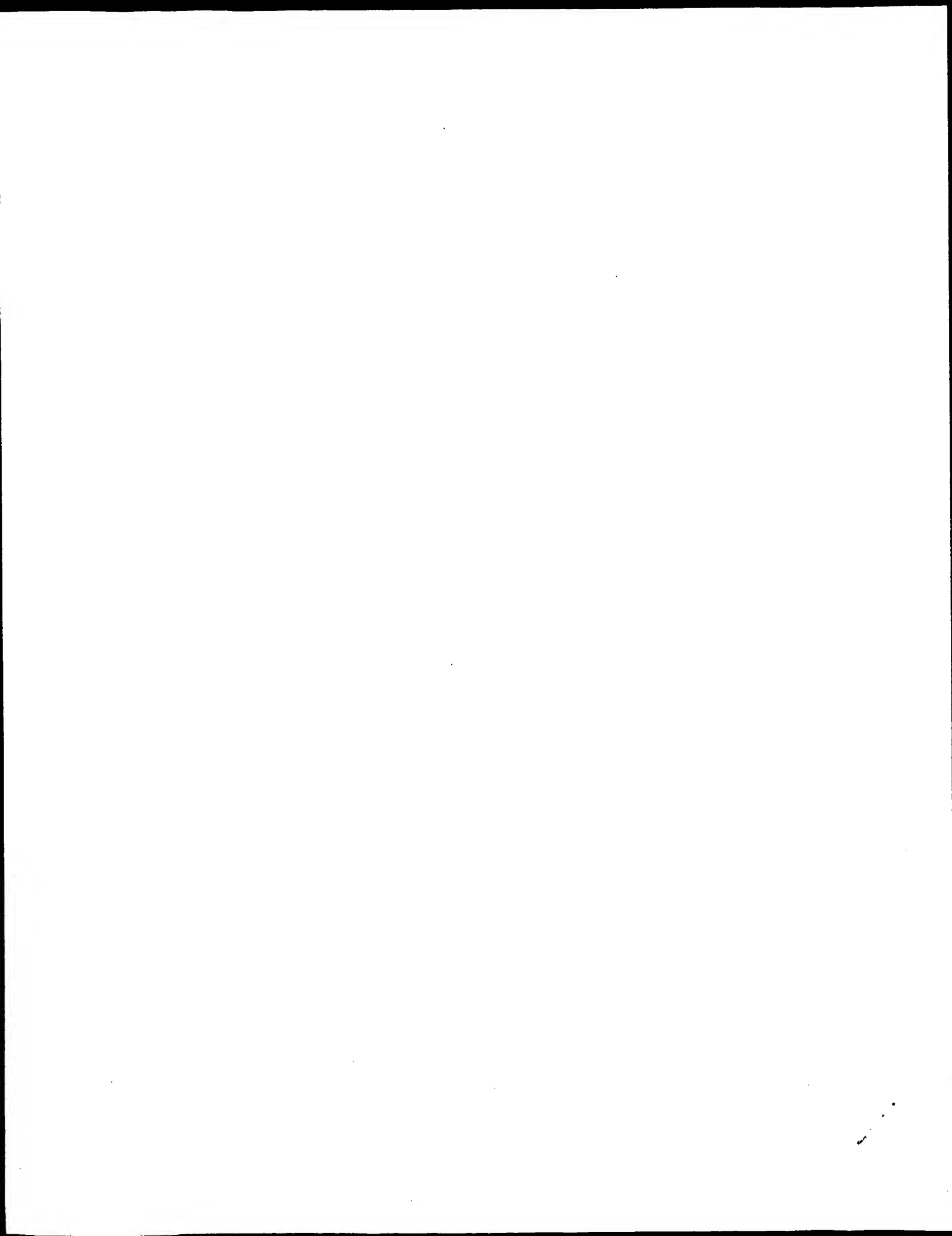
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QY 71 TAGVYVIMFDCNTAVREATTIWIQWNGTIIINPRSNLVLAAASSGIKGTTLTVQ 122
Db 427 SNGAVVQIYSCWGGANQK--WEIRADGTIVGVQSLCLDVGCGGTGNGTRLQ 476

RESULT 15

US-08-468-812-4
; Sequence 4, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaaper , Jari
; APPLICANT: M ntyl , Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-468-812-4

Query Match 9.5%; Score 135; DB 2; Length 492;
Best Local Similarity 33.0%; Pred. No. 9.4e-06;
Matches 37; Conservative 17; Mismatches 52; Indels 6; Gaps 4;
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Db 370 IRGVASN-RCIDVPGNTADGTQVQLYDCHSGS--NQQWYTSSTSGEFRIFGNKCLDAGGS 426
QY 71 TAGVYVIMFDCNTAVREATTIWIQWNGTIIINPRSNLVLAAASSGIKGTTLTVQ 122
Db 427 SNGAVVQIYSCWGGANQK--WEIRADGTIVGVQSLCLDVGCGGTGNGTRLQ 476

Search completed: March 22, 2003, 09:59:40
Job time : 9.11728 secs



GenCore version 5.1.4 p5.4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 9.27635 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-7

Perfect score: 1418
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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
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- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
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- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
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2	1333.5	94.0	267 10	US-09-347-064-4 Sequence 4, Appl
3	174.5	12.3	145 12	US-10-074-527-5 Sequence 5, Appl
4	129	9.1	135 9	US-09-973-457-5 Sequence 5, Appl
5	129	9.1	135 12	US-10-074-527-6 Sequence 6, Appl
6	124.5	8.8	492 10	US-09-770-621-7 Sequence 4, Appl
7	124.5	8.8	492 10	US-09-770-621-7 Sequence 7, Appl
8	122.5	8.6	480 10	US-09-770-621-5 Sequence 5, Appl
9	122.5	8.6	491 10	US-09-770-621-8 Sequence 8, Appl
10	102	7.2	612 12	US-10-001-851-25 Sequence 25, Appl
11	95	6.7	295 10	US-09-815-242-11833 Sequence 11833, A
12	94	6.6	1723 10	US-09-841-132-394 Sequence 394, App
13	94	6.6	1723 10	US-09-841-132-395 Sequence 395, App
14	93	6.6	2771 9	US-09-808-602-82 Sequence 82, Appl
15	89.5	6.3	770 10	US-09-815-656-31 Sequence 31, Appl
16	86.5	6.1	239 10	US-09-910-071-15 Sequence 15, Appl
17	83.5	5.9	608 10	US-09-924-358-8 Sequence 8, Appl
18	83	5.9	2353 10	US-09-797-862-33 Sequence 33, Appl
19	82.5	5.8	836 9	US-09-858-525A-10 Sequence 10, Appl

ALIGNMENTS

RESULT 1

US-09-347-064-10
; Sequence 10, Application US/09347064A

; Patent No. US20020045208A1

; GENERAL INFORMATION:

; APPLICANT: Eck, Jurgen

; APPLICANT: Schmidt, Arno

; APPLICANT: Zinke, Holger

; TITLE OF INVENTION: Recombinant Fusion Proteins Based on

; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum

; TITLE OF INVENTION: album

; FILE REFERENCE: 09282-5

; CURRENT APPLICATION NUMBER: US/09/347,064A

; CURRENT FILING DATE: 1999-07-02

; EARLIER APPLICATION NUMBER: PCT/EP98/00009

; EARLIER FILING DATE: 1998-01-02

; EARLIER APPLICATION NUMBER: EP 97 10 0012.0

; EARLIER FILING DATE: 1997-01-02

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 10

; LENGTH: 263

; TYPE: PRT

; ORGANISM: Viscum album

US-09-347-064-10

Query Match 94.0%; Score 1333.5; DB 10; Length 263;

Best Local Similarity 95.4%; Pred. No. 4.8e-116;

Matches 251; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

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Db 1 DDVTCASEPTVRIIVGRNGMCDVDRDDFDGNGNQLQWLWPSKSNNDPNQLTWKRDGTIRS 60

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Db 61 NGSCLTYYGYTAGVYVMIFDONTAVREATIWIQNDNGHIIINPRSNLVLAASSGKGTTLT 120

Qy 121 VOTLDYTLGGWLAGNDTAPREVITYGFRDLCEMSNGGSGVWVETCDSSQKQGWALYGD 180

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RESULT 2

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US-09-347-064--4
; Sequence 4, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347, 064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 267
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064--4

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RESULT 3

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US-10-074-527-5
; Sequence 5, Application US/10074527
; Patent No. US20020142426A1
; GENERAL INFORMATION:
; APPLICANT: Olandt, Peter J.
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Galvin, Katherine A.
; APPLICANT: Millennium Pharmaceuticals Inc.
; TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
; TITLE OF INVENTION: Uses Therefor
; FILE REFERENCE: MPI2001-018P(RCp1(M)
; CURRENT APPLICATION NUMBER: US/10/074-527

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; CURRENT FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 607269202
; PRIOR FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus
US-10-074-527-5

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RESULT 4

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US-09-973-457-5
; Sequence 5, Application US/09973457
; Patent No. US20020164746A1
; GENERAL INFORMATION:
; APPLICANT: Kapeller-Libermann, Rosana
; TITLE OF INVENTION: 47174, A NOVEL HUMAN GLYCOSYLTRANSFERASE
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: 10448-099001
; CURRENT APPLICATION NUMBER: US/09/973,457
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/238,849
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 135
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence
US-09-973-457-5

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RESULTS

US-10-074-527-6 ; Sequence 6, Application US/10074527
; Patent No. US20020142426A1
; GENERAL INFORMATION:
; APPLICANT: Olandt, Peter J.
; APPLICANT: Mevers, Rachel E.

APPLICANT: Galvin, Katherine A.
APPLICANT: Millennium Pharmaceuticals Inc.
TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
FILE REFERENCE: MPI2001-018P/RCPI(M)
CURRENT APPLICATION NUMBER: US/10/074,527
CURRENT FILING DATE: 2002-02-12
PRIOR APPLICATION NUMBER: 60/269202
PRIOR FILING DATE: 2001-02-15
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 135
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: consensus
US-10-074-527-6

Query Match 9.1%; Score 129; DB 12; Length 135;
Best Local Similarity 28.1%; Pred. No. 8.8e-05;
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QY 188 NODQCLTSGRDSVSTVINIVCSG---ASGSQRWFTNEGAILNLKN-----GLAMDV 237
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Db 112 KNGN-----KVQLWTCNGSDAPNQKMI 133

RESULT 6
US-09-770-621-4
Sequence 4, Application US/09770621
Patent No. US20010024815A1
GENERAL INFORMATION:
APPLICANT: M ntyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
TITLE OF INVENTION: Production and Secretion of Proteins of
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 New York Ave., N.W. Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,621
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/590,563
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 492 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-770-621-4
Query Match 8.8%; Score 124.5; DB 10; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.0012;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;
QY 23 DVRRDDFDHGNQIQWLPS---KSNNDPNQLWTIKRDGTIR---SNGSCLTTYG--- 70
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QY 71 --TAGVYVMI-----FDCNTAVREATIWIQINDNGTIINPRNLVLAASGKGTTL 119
Db 224 AKTQAVYNNVRDFKSRGVPIDC-----VGFQSHFNNGPNPNFRTTLQQAAL-GVDV 276
QY 120 TVQTLDTYTLGGWLAGNDTAPRE-----VTIYGRD-----LC 152
Db 277 EVTELDI-----ENAPQTYASVIRDCIAYVDRCTGITVWGRVSDSNRSYQNPL 326
QY 153 MESN-----GGSVWV-----ET 164
Db 327 FDNNGNKKQAYAVVLDALNEGSDGGSPNPVPPGGGQIRGVASNRNCDIVPNGNT 386
QY 165 CDSO-----KNQCKWALYGDGSRPRKQNOCLTSGRDSYSTVINIVSCSGASG 215
Db 387 ADGTQVQLYDCHSGNQ--QWYTSSEGEFRICN---KCLDAGSSNGAVVQIYSCWGGGA-N 442
QY 216 QRWFTNEGAILNLKNGIAMD-VAQANPKLRRRIIYPATGKNQMW 260
Db 443 QKWELRADGTIVGVQSGGLCLDAVGGGTGNGTFLQLYSCWGGNNQKW 488
RESULT 7
US-09-770-621-7
Sequence 7, Application US/09770621
Patent No. US20010024815A1
GENERAL INFORMATION:
APPLICANT: M ntyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
TITLE OF INVENTION: Production and Secretion of Proteins of
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 New York Ave., N.W. Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:
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; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
;
US-09-770-621-7

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Query Match      8.8%; Score 124.5; DB 10; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.0012;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;

Qy 23 DVRRDDFDHGNQIQWPS---KSNNDPNQWTKRDTGIR-----SNGSLTYGY----- 70
Db 168 DVNEAFEDGSGRCRDLQRTGND---WIEAFRTARQDPSAKLCYNDYNTENNNA 223

Qy 71 --TAGVYVMI-----FDGNTAVREATIWIQIWDNGTIIPRNLVLAASSGKIGTTL 119
Db 224 AKTQVYVNMVDFKRGVPIDC-----VGFQSHFNSGNPNPNFTTLQOFAAL-GVDV 276

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Db 277 EVTGLDI-----ENAPQTVASVIRDCVAVDRCTGTVGVGRDSDSWRSYQNPLL 326

Qy 153 MESN-----GGSVWV-----ET 164
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Db 387 ADGTQVLYDCHSGNQ-QWTYTSSEFRIFGN--KCLDAGSSNGAVVQIYSCWGA-N 442

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RESULT 8
US-09-770-621-5
; Sequence 5, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmanper, Jari
; APPLICANT: Fagerstr m, Richard

```

```

; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
;
US-09-770-621-5

Query Match      8.6%; Score 122.5; DB 10; Length 480;
Best Local Similarity 32.4%; Pred. No. 0.0018;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

Qy 22 VDVRRDDFDHGNQIQWPSKSNNDPNQWTKRDTGIRSNGS-CLTYYGTAGVYVMI 80
Db 379 IDVPGNTADGTQVQLYDCHSGS--NQQWTVTSSEFRIFGNKCLDAGSSNGAVVQIYS 436

Qy 81 CNTAVREATIWIQIWDNGTIIPRNLVLAASSGKIGTTLTVQ 122
Db 437 CWGANQK--WELRADGTIVGVQSLCLDAVGGTGNGTRLQ 476

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RESULT 9
US-09-770-621-8
; Sequence 8, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmanper, Jari
; APPLICANT: Fagerstr m, Richard

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; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; TYPE: amino acid
; LENGTH: 491 amino acids
; STRANDEDNESS: No. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
;
US-09-770-621-8

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Query Match      8.6%; Score 122.5; DB 10; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.0019;
Matches 40; Conservative 20; Mismatches 61; Indels 19; Gaps 6;

QY 7 ASEP-----TVRIVGRNMRVDVDDFDHGNQIQLPWPSKSNNDPNOLWTKRD 55
Db 354 SSEPPXXXXXAGQGGKGVG-SGRCLDVPDASTDGTQLQWDCHSGT--NQWAAATDA 410
QY 56 GTIRNSG-SCLTITYGTAGVYVMIEDCNTAVREATIWIWDNGTIINPRSNLVLA--SS 112
Db 411 GELRVYDKCLDAAGTSGSKVQLYSCWGGDNQK--WRLNSDGSVVGQGLCLDAVNG 468
QY 113 GIKGTTTLTVQTLDTLQGGW 132
Db 469 TANGTLIQLYTCNSGNSQRW 488

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RESULT 10
US-10-001-851-25
; Sequence 25, Application US/10001851
; Patent No. US20020115628A1

```

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; GENERAL INFORMATION:
; APPLICANT: MEYERS, Rachel A.
; APPLICANT: WILLIAMSON, Mark
; TITLE OF INVENTION: 47169 and 33935, No. US20020115628A1el Human Glycosyl Transferases
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 10147-5601
; CURRENT APPLICATION NUMBER: US/10/001,851
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: US 60/249,939
; PRIOR FILING DATE: 2000-11-20
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
;
US-10-001-851-25

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Query Match      7.2%; Score 102; DB 12; Length 612;
Best Local Similarity 26.4%; Pred. No. 0.2;
Matches 32; Conservative 23; Mismatches 50; Indels 16; Gaps 6;

QY 148 FRDLCMESN----GGSVVWVETCDSSQKQKQWALYDGSIRPKQKQDOCLTSGR-DSVST 202
Db 492 FTEKCVDTNGKKDQAGFIQACHGAGNQ-AWSLTGKGEIR---SDDLCLSSGHVYQIGS 547
QY 203 VINIVSCGASGSGRWVFT---NEGAILNLKGLAMDVQAQNPKLRIIYYPATGKNQM 259
Db 548 ELKLERCSVSKINVKHFVFDQAGTLLHKKTKCVTCADQQRVTLDEC----GLGRKQDM 603
QY 260 W 260
Db 604 W 604

```

```

RESULT 11
US-09-815-242-11833
; Sequence 11833, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haeselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11833
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa

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Sat Mar 22 10:41:43 2003

US-09-815-242-11833

Query Match 6.7%; Score 95; DB 10; Length 295;
 Best Local Similarity 19.6%; Pred. No. 0.35; 91; Indels 58; Gaps 7;
 Matches 45; Conservative 36; Mismatches 30; Mismatches 30; Indels 58; Gaps 7;
 QY 2 DVTCASEPTVRIYGRGMRVDVDDDFHDCNQIQLWPSKNNDPNQLWTIKRDTGRSN 61
 DB 37 DVNAAAEETQLLIASSGVRVSTAVDVADREQVQAMADKAASEHGRVNLIFNAGVAHA 96
 QY 62 GSCULTTYGTAGVYVIMPCDNTAVRETIQIWD-----NGTIINPRSNLVL 108
 DB 97 G---IVEGSDYSEYEWIMNIN-----FWGVVNGTKAFLPHLKASGNHVVNVSSVFLG 146
 QY 109 AASSGIGKTTLTQVTLTYLQGWLAGNDTAPREVITYGF-----RDLCMESNG----- 157
 DB 147 FAQPGMSAYNAT-----KYAVRGFTESLRQELDMEDSGVSASCV 185
 QY 158 --GSVWVETCDSSQKQKQWALYDGSIRPK-QNODQCLTSGRDSVTVI 204
 DB 186 HPGGKTKTAKTARNESMAKVGTGQAPDKAREQFNDQLLRTTPEKAAQVI 235

RESULT 12

US-09-841-132-394
 ; Sequence 394, Application US/09841132
 ; Patent No. US20020061848A1

GENERAL INFORMATION:

APPLICANT: Bhatia, Ajay
 APPLICANT: Skeiky, Yaser A.W.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 FILE REFERENCE: 210121.469C8
 CURRENT APPLICATION NUMBER: US/09/841,132
 CURRENT FILING DATE: 2001-04-23
 NUMBER OF SEQ ID NOS: 599
 SOFTWARE: FASTSEQ for Windows Version 3.0/4.0
 SEQ ID NO 394
 LENGTH: 1723
 TYPE: PRT
 ORGANISM: Chlamydia pneumoniae

US-09-841-132-394

Query Match 6.6%; Score 94; DB 10; Length 1723;
 Best Local Similarity 22.5%; Pred. No. 4.3;
 Matches 60; Conservative 30; Mismatches 81; Indels 96; Gaps 10;

QY 59 RNSGCLTTYGT--AGVYVIMPCDNTA-----VREATIWIQWDN-----G 97
 DB 231 KSGGAAYTEGALTQAIWEAVTFTGNTSAGOGGAIYVKEATLFLNADSLKFEKNTSGQAG 290
 QY 98 TIINPRSNLVL-----AASSGIGKTTLTQVTL----- 124
 DB 291 GGIYTESTLTISNITKSIETISNKSASVPAPAPPTSPAPSSLLNSTIDTSTLQTRAASA 350
 QY 125 -----DYTLGQWLAGNDTAPREVITYGFRDLCMESNGSGVWVE-TCD 166
 DB 351 TPAPAPVAAVTPTISTQETAGN---GAIYAKQGISISTFKDLTFKNSASVDTATLTV 407
 QY 167 SSKNQKQWALYDGSIRPKQNOQCLTSGRD-----SVSTVINIV-----S 208
 DB 408 STTIGESGAIFAADSIOIQCTGTTLFSGNTANKSGGGIYAVGQVTLIEDIANLKMNTNT 467
 QY 209 CSGASG---SORWFTNEGAILNLKNG 232
 DB 468 CKEGGAIYTKKALTINNGAILTTFSG 494

RESULT 13

US-09-841-132-395
 ; Sequence 395, Application US/09841132
 ; Patent No. US0020061848A1

GENERAL INFORMATION:

APPLICANT: Bhatia, Ajay
 APPLICANT: Skeiky, Yaser A.W.
 APPLICANT: Probst, Peter
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 FILE REFERENCE: 210121.469C8
 CURRENT APPLICATION NUMBER: US/09/841,132
 CURRENT FILING DATE: 2001-04-23
 NUMBER OF SEQ ID NOS: 599
 SOFTWARE: FASTSEQ for Windows Version 3.0/4.0
 SEQ ID NO 395
 LENGTH: 1723
 TYPE: PRT
 ORGANISM: Chlamydia pneumoniae

US-09-841-132-395

Query Match 6.6%; Score 94; DB 10; Length 1723;
 Best Local Similarity 22.5%; Pred. No. 4.3;
 Matches 60; Conservative 30; Mismatches 81; Indels 96; Gaps 10;

QY 59 RNSGCLTTYGT--AGVYVIMPCDNTA-----VREATIWIQWDN-----G 97
 DB 231 KSGGAAYTEGALTQAIWEAVTFTGNTSAGOGGAIYVKEATLFLNADSLKFEKNTSGQAG 290
 QY 98 TIINPRSNLVL-----AASSGIGKTTLTQVTL----- 124
 DB 291 GGIYTESTLTISNITKSIETISNKSASVPAPAPPTSPAPSSLLNSTIDTSTLQTRAASA 350
 QY 125 -----DYTLGQWLAGNDTAPREVITYGFRDLCMESNGSGVWVE-TCD 166
 DB 351 TPAPAPVAAVTPTISTQETAGN---GAIYAKQGISISTFKDLTFKNSASVDTATLTV 407
 QY 167 SSKNQKQWALYDGSIRPKQNOQCLTSGRD-----SVSTVINIV-----S 208
 DB 408 STTIGESGAIFAADSIOIQCTGTTLFSGNTANKSGGGIYAVGQVTLIEDIANLKMNTNT 467
 QY 209 CSGASG---SORWFTNEGAILNLKNG 232
 DB 468 CKEGGAIYTKKALTINNGAILTTFSG 494

RESULT 14

US-09-808-602-82
 ; Sequence 82, Application US/09808602
 ; Patent No. US20020155115A1

GENERAL INFORMATION:

APPLICANT: Vernet, Corine A
 APPLICANT: Fernandes, Elma
 APPLICANT: Shimkets, Richard A
 APPLICANT: Herrman, John L
 APPLICANT: Majumder, Kumud
 APPLICANT: Mishra, Vishnu
 APPLICANT: Mezes, Peter S
 APPLICANT: MacDougall, John
 TITLE OF INVENTION: No. US20020155115A1el Proteins and Nucleic Acids Encoding Same
 FILE REFERENCE: 15966-697 CIP
 CURRENT APPLICATION NUMBER: US/09/808,602
 CURRENT FILING DATE: 2001-03-14
 PRIOR APPLICATION NUMBER: 09/800,198
 PRIOR FILING DATE: 2001-03-05
 PRIOR APPLICATION NUMBER: 60/186,596
 PRIOR FILING DATE: 2000-03-03
 NUMBER OF SEQ ID NOS: 114
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 82
 LENGTH: 2771
 TYPE: PRT
 ORGANISM: Mus musculus

US-09-808-602-82

Query Match 6.6%; Score 93; DB 9; Length 2771;

Best Local Similarity 25.0%; Pred. No. 9.9;

Matches	61; Conservative	26; Mismatches	87; Indels	70; Gaps	14;
Qy	60	SNGSCLTYGYTAGVYVMIFDCNTAVREATWQIWD-NGTIIIPRSLVLAASSGKGT	118		
Db	1593	TSGKHLVTSQSLPTGDIYLF----TYTGGDITHITDNGWVVRDST------GMP	1641		
Qy	119	LTWQTLDYTLGQ-GWLA-GNDTAPREVIYFDRDLCHESNGSVVWVETCSSQKQKWA	176		
Db	1642	LWLVPD----GQVYVMTGNSALRSVTTQGHSLAMTYHGNGLLAT----KSNENGWT	1694		
Qy	177	LYGD------GSIKPKNQD----QCLTSGRDSVSTVINIVSCS------	210		
Db	1695	TFEYDSFGRLTNVTEPTQGVSPSSDSDSVHVQVETSSKDDVTITNLISAGAFYLL	1754		
Qy	211	-----GAGSQRWFTNEGALNLKGLAMDVA-QANPKLRIIIYYPATGKPNQM	259		
Db	1755	QDQRNSYYIGADGSUR------LLANG--MEVALQTEPHLAGTVNPTVTKRN-V	1802		
Qy	260	WLPV	263		
Db	1803	TLPI	1806		

RESULT 15

US-09-815-656-31

; Sequence 31, Application US/09815656

; Patent No. US20010041331A1

; GENERAL INFORMATION:

APPLICANT: Abbott Laboratories

APPLICANT: Leary, Thomas

APPLICANT: Erker, James

APPLICANT: Chalmers, Michelle

APPLICANT: Simons, John

APPLICANT: Birkenmeyer, Larry

APPLICANT: Muerhoff, Scott

; APPLICANT: Pilot-Matias, Tami
; APPLICANT: Dossai, Guneesh

APPLICANT: Desai, Suresh
APPLICANT: Muchabwa, Isaac

APPLICANT: Mushahwar, Isa
TITLE OF INVENTION: METHODS OF

FILE OF INVENTION: METHODS OF UTILIZING THE TT VIRUS
FILE REFERENCE: 6461 US O1

FILE REFERENCE: 6461.US.OI
CURRENT APPLICATION NUMBER

; CURRENT AFFILIATION NUMBER: US/09/815,656
 ; CURRENT FILING DATE: 2001-03-23

/ CURRENT FILING DATE: 2001-03-23
 ; PRIOR APPLICATION NUMBER: 09/245

; PUBLICATION NUMBER: 09/243,248
 ; PRIOR FILING DATE: 1999-02-05

; NUMBER OF SEQ ID NOS: 71

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 31

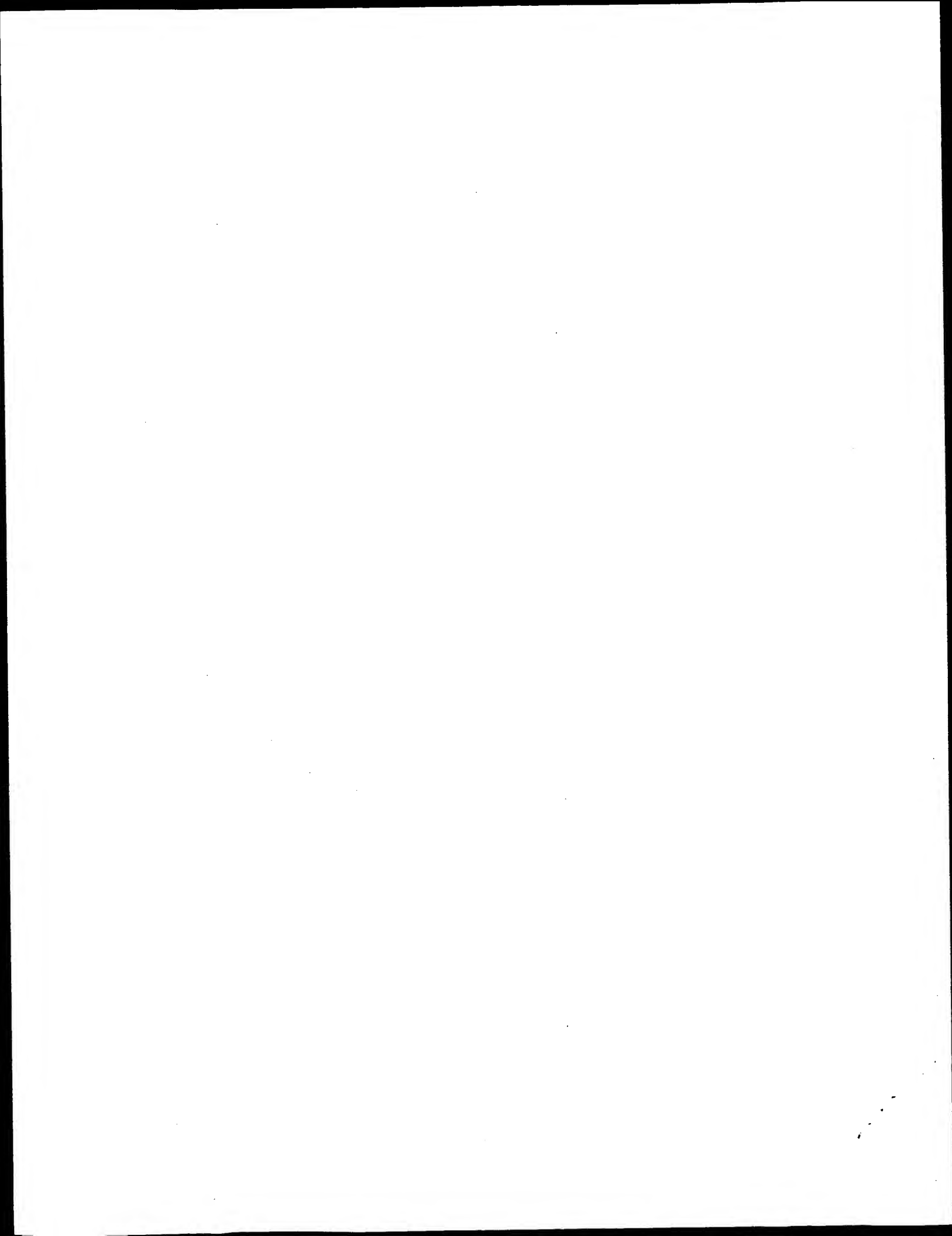
; LENGTH: 770

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-815-656-31

Query Match		6.3%;	Score 89.5;	DB 10;	Length 770;	
Best Local Similarity		22.5%;	Pred. No. 3.9;			
Matches	55;	Conservative	23;	Mismatches	97;	Indels
Gaps					69;	Gaps
	12;					
Qy	61	NGSCLTYYG-----YTAGVVMVFDCNTAVREATIWOVDNGTINGR-----	103			
Db	321	SGITTTWGSLLNTHKFTTTTTITYPGTNVTTFITANDSWYRGTVVNQNIKDVAKK	380			
Qy	104	-SNLVLAASGGTKGTLTVQTLDYTLGG-----WLAGNDT---APREVIITYGRDLC	152			
Db	381	AALYSKATKAVLGNFTF--TEDYTLGYHGGLYSIWLSPCRSYFETPCAYTDIKYNPPT	438			
Qy	153	MESNGSGSVVETCDSSQKNQGWALYGDGSRPKQNOOCLTSGRDSVSTVINIVS-CSG	211			
Db	439	DRCEGNLWDLWSKKNNYDK-----VQSKCLISDLPLMAAAYGVYEFCAK	485			
Qy	212	ASCSQ-----RWVFTN-----EGAI-----LNLKNGLAMDNAQAHPKL-R-I	247			
Db	486	STDQDNHMANRLIRSPFTDPQLLVHTDPTKGFPVPSLNFNGG-KWPQSGSSNVPIRMRA	544			
Qy	248	IIVP 251				



GenCore version 5.1.4 p5_4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 8.14815 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-7
Perfect score: 1418
Sequence: 1 DDVTCASAEPTVIRVGRNGM.....PRIIIPATGKNQWMLPVF 264

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/2/iaa/PTCUS_COMB.pep.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1333.5	94.0	263	4	US-08-776-059-43
2	1333.5	94.0	264	4	US-08-776-059-33
3	1333.5	94.0	564	4	US-08-776-059-35
4	783.5	55.3	540	1	US-08-378-761A-77
5	783.5	55.3	540	1	US-08-485-286-77
6	182.5	12.9	293	4	US-09-512-342-14
7	136	9.6	132	4	US-09-159-106-15
8	136	9.6	435	4	US-09-159-106-11
9	124.5	8.8	492	2	US-08-468-812-4
10	124.5	8.8	492	2	US-08-468-812-7
11	124.5	8.8	492	4	US-08-590-563-4
12	124.5	8.8	492	4	US-08-590-563-7
13	122.5	8.6	480	2	US-08-468-812-5
14	122.5	8.6	480	4	US-08-590-563-5
15	122.5	8.6	491	2	US-08-468-812-8
16	122.5	8.6	491	4	US-08-590-563-8
17	122	8.6	127	1	US-08-392-828C-39
18	122	8.6	127	3	US-09-330-945-39
19	106	7.5	507	4	US-09-130-337A-25
20	89.5	6.3	770	4	US-09-245-248B-31
21	87.5	6.2	342	4	US-09-129-033-2
22	87.5	6.2	553	1	US-08-565-386-6
23	86.5	6.1	420	2	US-08-282-197C-63
24	86.5	6.1	420	2	US-08-282-197C-66
25	86	6.1	1687	2	US-08-570-311-29
26	86	6.1	1704	3	US-08-336-308A-10
27	86	6.1	1704	3	US-08-822-324-6

28	86	6.1	1704	4	US-09-490-931-10	Sequence 10, Appl
29	84	5.9	1087	2	US-08-570-311-8	Sequence 8, Appl
30	84	5.9	1087	2	US-08-353-485-8	Sequence 8, Appl
31	84	5.9	1358	2	US-08-570-311-27	Sequence 27, Appl
32	83	5.9	1912	1	US-08-409-995-4	Sequence 4, Appl
33	83	5.9	1912	3	US-08-685-467-4	Sequence 4, Appl
34	83	5.9	2353	4	US-09-377-155-33	Sequence 4, Appl
35	83	5.9	2353	4	US-08-913-942-4	Sequence 33, Appl
36	83	5.9	2353	4	US-09-669-974-33	Sequence 33, Appl
37	83	5.9	2354	4	US-09-268-347-47	Sequence 36, Appl
38	83	5.9	2411	4	US-09-268-347-36	Sequence 36, Appl
39	82.5	5.8	1732	2	US-08-570-311-10	Sequence 10, Appl
40	82.5	5.8	1732	2	US-08-353-485-10	Sequence 10, Appl
41	81.5	5.7	704	3	US-08-792-832A-2	Sequence 10, Appl
42	80.5	5.7	517	2	US-08-967-508-19	Sequence 2, Appl
43	80.5	5.7	517	3	US-08-967-508-19	Sequence 19, Appl
44	80.5	5.7	517	5	PCT-US94-02552-19	Sequence 19, Appl
45	80.5	5.7	559	2	US-08-967-508-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1

US-08-776-059-43
; Sequence 43, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; EARLIER FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-43

Query Match 94.0%; Score 1333.5; DB 4; Length 263;
Best Local Similarity 95.4%; Pred. No. 4.5e-131;
Matches 251; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

Qy	1	DDVTCASAEPTVIRVGRNGMRVDRDDHFGNQIOIOWPSKSNNDPNQLWTKRDGTIRS	60
Db	1	DDVTCASAEPTVIRVGRNGMCMVDRDDHFGNQIOIOWPSKSNNDPNQLWTKRDGTIRS	60
Qy	61	NGSCLTTYGTAGYVYVIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIKGTILT	120
Db	61	NGSCLTTYGTAGYVYVIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIKGTILT	120
Qy	121	VQTLDYTLGGWLAGNDTAPREVTIYGFRLDCMESNGSGVWVETCDSSQKQKWLAYGD	180
Db	121	VQTLDYTLGGWLAGNDTAPREVTIYGFRLDCMESNGSGVWVETCDSSQKQKWLAYGD	179
Qy	181	GSIRPKNQDQCLTSGRDSVSTVINIVSCGASGSGORWFTNEGAILNLKGLAMDVQA	240
Db	180	GSIRPKNQDQCLTSGRDSVSTVINIVSCGASGSGORWFTNEGAILNLKGLAMDVQA	239
Qy	241	NPKLRIIIPATGKNQWMLPV	263
Db	240	NPKLRIIIPATGKNQWMLPV	262

US-08-776-059-35

Query Match 94.0%; Score 1333.5; DB 4; Length 564;
 Best Local Similarity 95.4%; Pred. No. 1.4e-130;
 Matches 251; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMRVDRDDDFHDCNQIQLWPSKSNNDPNQLWTKRDGTIRS 60
 DB 302 DDVTCASEPTVRIVGRNGMCDVDRDDDFHDCNQIQLWPSKSNNDPNQLWTKRDGTIRS 361
 QY 61 NGSCLTTGYTAGVYVMI FDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIKGTTLT 120
 DB 362 NGSCLTTGYTAGVYVMI FDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIKGTTLT 421
 QY 121 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLDCMESNGGSGVWVETCDSSQKQKQWALYGD 180
 DB 422 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLDCMESNGGSGVWVETCVSSQKQ-RWALYGD 480
 QY 181 GSIRPKQNDQCLTGRDSVSTVINIVSCGASGSGQRWVFTNEGAILNLKGLAMDVAQA 240
 DB 481 GSIRPKQNDQCLTGRDSVSTVINIVSCGASGSGQRWVFTNEGAILNLKGLAMDVAQA 540
 QY 241 NPKLRRIIYPATGKPNQWMLPV 263
 DB 541 NPKLRRIIYPATGKPNQWMLPV 563

RESULT 4
 US-08-378-761A-77
 ; Sequence 77, Application US/08378761A
 ; Patent No. 5635384
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSH, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/378,761A
 ; FILING DATE: 26-JAN-1995
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T.
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 77:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 540 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-378-761A-77

Query Match 55.3%; Score 783.5; DB 1; Length 540;
 Best Local Similarity 56.2%; Pred. No. 2.9e-73;
 Matches 146; Conservative 41; Mismatches 72; Indels 1; Gaps 1;

US-08-776-059-33
 ; Sequence 33, Application US/08776059B
 ; Patent No. 6271368
 ; GENERAL INFORMATION:
 ; APPLICANT: LENTZEN, Hans
 ; APPLICANT: ECK, Jurgen
 ; APPLICANT: BAUR, Axel
 ; APPLICANT: ZINKE, Holger
 ; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
 ; FILE REFERENCE: 674503-2003
 ; CURRENT APPLICATION NUMBER: US/08/776,059B
 ; CURRENT FILING DATE: 1999-06-19
 ; EARLIER APPLICATION NUMBER: PCT/EP96/02273
 ; EARLIER FILING DATE: 1996-06-25
 ; EARLIER APPLICATION NUMBER: 95109949.8
 ; EARLIER FILING DATE: 1995-06-26
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 33
 ; LENGTH: 264
 ; TYPE: PRT
 ; ORGANISM: Viscum album
 ; US-08-776-059-33

Query Match 94.0%; Score 1333.5; DB 4; Length 264;
 Best Local Similarity 95.4%; Pred. No. 4.5e-131;
 Matches 251; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMRVDRDDDFHDCNQIQLWPSKSNNDPNQLWTKRDGTIRS 60
 DB 2 DDVTCASEPTVRIVGRNGMCDVDRDDDFHDCNQIQLWPSKSNNDPNQLWTKRDGTIRS 61
 QY 61 NGSCLTTGYTAGVYVMI FDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIKGTTLT 120
 DB 62 NGSCLTTGYTAGVYVMI FDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIKGTTLT 121
 QY 121 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLDCMESNGGSGVWVETCDSSQKQKQWALYGD 180
 DB 122 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLDCMESNGGSGVWVETCVSSQKQ-RWALYGD 180
 QY 181 GSIRPKQNDQCLTGRDSVSTVINIVSCGASGSGQRWVFTNEGAILNLKGLAMDVAQA 240
 DB 181 GSIRPKQNDQCLTGRDSVSTVINIVSCGASGSGQRWVFTNEGAILNLKGLAMDVAQA 240
 QY 241 NPKLRRIIYPATGKPNQWMLPV 263
 DB 241 NPKLRRIIYPATGKPNQWMLPV 263

RESULT 3
 US-08-776-059-33
 ; Sequence 35, Application US/08776059B
 ; Patent No. 6271368
 ; GENERAL INFORMATION:
 ; APPLICANT: LENTZEN, Hans
 ; APPLICANT: ECK, Jurgen
 ; APPLICANT: BAUR, Axel
 ; APPLICANT: ZINKE, Holger
 ; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
 ; FILE REFERENCE: 674503-2003
 ; CURRENT APPLICATION NUMBER: US/08/776,059B
 ; CURRENT FILING DATE: 1999-06-19
 ; EARLIER APPLICATION NUMBER: PCT/EP96/02273
 ; EARLIER FILING DATE: 1996-06-25
 ; EARLIER APPLICATION NUMBER: 95109949.8
 ; EARLIER FILING DATE: 1995-06-26
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 35
 ; LENGTH: 564
 ; TYPE: PRT
 ; ORGANISM: Viscum album

QY 5 CSASEPTVIRIVGRNGMRVDRDDFDHGNQIQLWPKSKNNDPNQLWTIKRDGTIRNSGSC 64
Db 282 CNDPEPIVRIVGRNGLCVDVTGEFFDGNPIQLWPKCKSNTDWNQLWTLRKDSTIRNSGKC 341
QY 65 LTTYGYTAGVYVWIFDCNTAVREATIWOIWDNGTIINPRSNLVLAASSGIGKTTLTVOQL 124
Db 342 LTIKSKSPROQVVIYNCSTATVGTATRWQIWDNRITIIINPRSGVLAAATSGNSGTCLTVQTN 401
QY 125 DYTLOGWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSOKNOGKWLADGGSIR 184
Db 402 IYAVSQWLPNTNTPFVTTIYGLYGMCLQANSKWLWEDC-TSEKAEQQWALYADGSIR 460
QY 185 PKONODCLTSGRDSVSTVINIVSCGASGSRWVFTNEGAILNLKNGLAMDAVAQNPKL 244
Db 461 PQNRDNCULTDANIKGTIVVKILSCGPASSGQRMFKNDGTILNLYNGLVLDVRRSDPSL 520
QY 245 RRIIYPATGKPNQWMLPVF 264
Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 5

US-08-485-286-77
; Sequence 77, Application US/08485286
; Patent No. 5646026
; Patent No. 5646026 5646119.

GENERAL INFORMATION:

APPLICANT: WALSH, TERENCE A

APPLICANT: HEY, TIMOTHY D

APPLICANT: MORGAN, ALICE ER

TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE

TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF

NUMBER OF SEQUENCES: 81

CORRESPONDENCE ADDRESS:

ADDRESSEE: ANDREA T. BORUCKI

STREET: 9330 ZIONSVILLE ROAD

CITY: INDIANAPOLIS

STATE: IN

COUNTRY: US

ZIP: 46268

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/485,286

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/378761

FILING DATE: 26-JAN-1995

ATTORNEY/AGENT INFORMATION:

NAME: BORUCKI, ANDREA T

REGISTRATION NUMBER: 33651

REFERENCE/DOCKET NUMBER: 38272B

TELEPHONE: (317) 337-4846

INFORMATION FOR SEQ ID NO: 77:

SEQUENCE CHARACTERISTICS:

LENGTH: 540 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-485-286-77

Query Match

Best Local Similarity 55.3%; Score 783.5; DB 1; Length 540;

Matches 146; Conservative 41; Mismatches 72; Indels 1; Gaps 1;

QY 5 CSASEPTVIRIVGRNGMRVDRDDFDHGNQIQLWPKSKNNDPNQLWTIKRDGTIRNSGSC 64
Db 282 CNDPEPIVRIVGRNGLCVDVTGEFFDGNPIQLWPKCKSNTDWNQLWTLRKDSTIRNSGKC 341
QY 65 LTTYGYTAGVYVWIFDCNTAVREATIWOIWDNGTIINPRSNLVLAASSGIGKTTLTVOQL 124
Db 342 LTIKSKSPROQVVIYNCSTATVGTATRWQIWDNRITIIINPRSGVLAAATSGNSGTCLTVQTN 401
QY 125 DYTLOGWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSOKNOGKWLADGGSIR 184
Db 402 IYAVSQWLPNTNTPFVTTIYGLYGMCLQANSKWLWEDC-TSEKAEQQWALYADGSIR 460
QY 185 PKONODCLTSGRDSVSTVINIVSCGASGSRWVFTNEGAILNLKNGLAMDAVAQNPKL 244
Db 461 PQNRDNCULTDANIKGTIVVKILSCGPASSGQRMFKNDGTILNLYNGLVLDVRRSDPSL 520
QY 245 RRIIYPATGKPNQWMLPVF 264
Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 6

US-09-512-342-14
; Sequence 14, Application US/09512342
; Patent No. 6388068

GENERAL INFORMATION:

APPLICANT: SATOH, SHINOBU

APPLICANT: MASUDA, SUSUMU

TITLE OF INVENTION: METHOD FOR PRODUCING FOREIGN POLYPEPTIDE IN PLANT

TITLE OF INVENTION: INTERCELLULAR FLUID

FILE REFERENCE: 081356/0142

CURRENT APPLICATION NUMBER: US/09/512,342

CURRENT FILING DATE: 2000-02-24

NUMBER OF SEQ ID NOS: 38

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14

LENGTH: 293

TYPE: PRT

ORGANISM: Cucumis sativus

US-09-512-342-14

Query Match

Best Local Similarity 12.9%; Score 182.5; DB 4; Length 293;

Matches 63; Conservative 31; Mismatches 91; Indels 39; Gaps 10;

QY 14 IVGRNGMRVDRDDFDHGNQIQLW-----PSK-----SNNDPNQLWTIKRDGTIR-- 59
Db 41 LVGRDGLCLMSP-----WYKPAGINFPTRLSPCDEKKQTQLWTIVGDTIRPM 89
QY 60 SNGSCLTT---YGYTAGVYVWIFDCNTAVREATIWOIWDNGTIINPRSNLVLAASSGIGK 116
Db 90 NDKFCLAAAEVFGVIN--KAVVSCGKVDPNKKWTOKNDGTIALVDSRMVLTGLDLY-- 145
QY 117 TTLIVQTLDTYLOGWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSOKNOGK 174
Db 146 --VTLOSNKYTPSQSWEVTELSNWMVANI EWLNNLCIQSTDDSSHVGLNCNTDNKYQ-R 202
QY 175 WALYGDGSIIRPKONODCLTSGRDSVSTVINIVSCGASGSRW 218
Db 203 WALYADGTIRQHVKNKYCLTSDQDFGRFV--VVSCKEDKPKQQRW 244

RESULT 7

US-09-159-106-15
; Sequence 15, Application US/09159106
; Patent No. 6284509

GENERAL INFORMATION:

APPLICANT: Ferrer, Pau

APPLICANT: Diers, Ivan

APPLICANT: Halkier, Torben

APPLICANT: Hedegaard, Lisbeth

TITLE OF INVENTION: An Enzyme with -1,3-Glucanase

TITLE OF INVENTION: Activity

us-09-601-667c-7.ra1

Sat Mar 22 10:41:42 2003

```

; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
US-09-159-106-15

Query Match          9.6%; Score 136; DB 4; Length 132;
Best Local Similarity 36.3%; Pred. No. 1.2e-06;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;

QY 18 NGMRVDRDDFDHGNQIQWPSKSNNDPNQLWTIKRDGTIRNSGSLTTY--GYTAGVY 75
Db 14 NGMVDVWPADPTDGNPQIVTCSGN--AAQIWTGRSGDTVRALGKCLDVRDGSSTRGAA 71

QY 76 VMIFDCNTAVREATIQIW--DNGT--IINPRSNLVLAASSGI---KGTTLTVQTLDTYL 128
Db 72 VQVWTCN-----GTGAQKWAYDAGSKALRNPQSGLCCLDATGGAPLRDGORLQWTWCNGTT 126

QY 129 GQGW 132
Db 127 AQQW 130

RESULT 8
US-09-159-106-11
; Sequence 11, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrer, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
US-09-159-106-11

Query Match          9.6%; Score 136; DB 4; Length 435;
Best Local Similarity 36.3%; Pred. No. 6.9e-06;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;

QY 18 NGMRVDRDDFDHGNQIQWPSKSNNDPNQLWTIKRDGTIRNSGSLTTY--GYTAGVY 75
Db 317 NGMVDVWPADPTDGNPQIVTCSGN--AAQIWTGRSGDTVRALGKCLDVRDGSSTRGAA 374

QY 76 VMIFDCNTAVREATIQIW--DNGT--IINPRSNLVLAASSGI---KGTTLTVQTLDTYL 128
Db 375 VQVWTCN-----GTGAQKWAYDAGSKALRNPQSGLCCLDATGGAPLRDGORLQWTWCNGTT 429

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QY 129 GQGW 132
Db 430 AQQW 433

RESULT 9
US-08-468-812-4
; Sequence 4, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Aija
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: of Use
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-468-812-4

Query Match          8.8%; Score 124.5; DB 2; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.00013;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;

QY 23 DVRRDDFDHGNQIQWPS---KSNNDPNQLWTIKRDGTIR---SNGSCLTTYGY----- 70
Db 168 DVVNEAFEDGNSGRCDNLSQRTGND-----WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223

QY 71 --TAGVVVMI-----FDCNTAVREATIQIWNQINGTIINPRSNLVLAASSGIKGTTL 119
Db 224 AKTOAVVNMVDRFKSRGVPIDC-----VGFQSHFNSGPNPNFRTTLOQFAAL--GVDV 276

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QY 120 TVQTLDTLGGWLAGNDTAPRE-----VTIYGRD-----LC 152
Db 277 EVTELDI-----ENAPAQYASVIRDCIATVWGVDRSDSWSYQNPL 326
QY 153 MESN-----GGSVWV-----ET 164
Db 327 FDNNGNKKQAYAVLDALNEGSDGGGPNPVPSPGGGQIRGVASNRCDIVPNGNT 386
QY 165 CDSQ-----KNOGKVALYDGSIRPKQNDQCLTSGRDSVSTVINIVSCGASGS 215
Db 387 ADGTQVQLYDCHSGSNQ-QWTYSSGEFRIFGN--KCLDAGSSNGAVVQIYSCWGA-N 442
QY 216 QRVVFTNEGAILNKLGLAMD-VAQANPKLRRIIYPATGKPNQMW 260
Db 443 QKWELRADGTIVGVQSLCLDAVGCGTGNGIRLQLYSCWGNQKW 488

RESULT 10
US-08-468-812-7
; Sequence 7, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomodura Xylanase Sequences and Methods
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 452 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50

US-08-468-812-7
Query Match 8.8%; Score 124.5; DB 2; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.00013;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;
QY 23 DYRDDDFHDGNGIQIOWPS-----KSNNDPNQLWTIKRDGTIR-----SNGSCLTTYCY-----70
Db 168 DYNVEAFEDGNSGRCDNSLQRTGND-----WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223
QY 71 --TAGVYVMI-----FDCNTAVREATIWOIWDNGTTIINPRSNLVLAASSGIKGTTL 119
Db 224 AKTQAVYNNVDRDFKSRGVPIDC-----VGQSHFNSGNPNYENFRFTTLQOFAAL-GVDV 276
QY 120 TVQTLDTLGGWLAGNDTAPRE-----VTIYGRD-----LC 152
Db 277 EVTELDI-----ENAPAQYASVIRDCIATVWGVDRSDSWSYQNPL 326
QY 153 MESN-----GGSVWV-----ET 164
Db 327 FDNNGNKKQAYAVLDALNEGSDGGGPNPVPSPGGGQIRGVASNRCDIVPNGNT 386
QY 165 CDSQ-----KNOGKVALYDGSIRPKQNDQCLTSGRDSVSTVINIVSCGASGS 215
Db 387 ADGTQVQLYDCHSGSNQ-QWTYSSGEFRIFGN--KCLDAGSSNGAVVQIYSCWGA-N 442
QY 216 QRVVFTNEGAILNKLGLAMD-VAQANPKLRRIIYPATGKPNQMW 260
Db 443 QKWELRADGTIVGVQSLCLDAVGCGTGNGIRLQLYSCWGNQKW 488

RESULT 11
US-08-590-563-4
; Sequence 4, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmaanper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536

us-09-601-667c-7.ra1

Sat Mar 22 10:41:42 2003

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-590-563-4

Query Match      8.8%; Score 124.5; DB 4; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.00013;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;

QY 23 DVRDDDFHGNQIQWLPS---KSNNDPNQLWTIKRDGTIR-----SNGSCLTTYGY-----70
Db 168 DVVNEAFEDGNSGRCDNLORTGND---WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223
QY 71 --TAGVYVMI-----FDCNTAVREATIWIQWINDGTIINPRSNLVLAASSGIKGTLL 119
Db 224 AKTQAVYVMVRDFKSRGVPIDC-----VGFOSHENSNGPNPNFRTTLOQFAAL-GVDV 276
QY 120 TVQTLDTLGGQWLAGNDTAPRE-----VTIYGFDR-----LC 152
Db 277 EVTELDI-----ENAPATYASVIRDCIADVDRCTGITVWGVDRSDSWSRVSQNPPLL 326
QY 153 MESN-----GGSVWV-----ET 164
Db 327 FDNNGKKQAYYAVLDALNEGSDGGSNPPVSPPPGGSGQIRGVASNRCDIVPNGNT 386
QY 165 CDSQ-----KQGKVALYGDGSIIRPKQNDQCLTSGRDSVSTVINIVSCSGSGS 215
Db 387 ADGTQVQLYDCHSGSNQ-QWYTTSSGEFRIFGN--KCLDAGSSNGAVVQIYSCWGGA-N 442
QY 216 QRWVFTNEGAILNKLGLAMD-VAQANPKLRRIIIPATGKNQMW 260
Db 443 QKWELRADGTIVGVQSGLCILDVAGGGTGNGTRQLQLYSCWGGNNQKW 488

RESULT 12
US-08-590-563-7
; Sequence 7, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M nyl, Arja
; APPLICANT: Vehmaaper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSER: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
; US-08-590-563-7

Query Match      8.8%; Score 124.5; DB 4; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.00013;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;

QY 23 DVRDDDFHGNQIQWLPS---KSNNDPNQLWTIKRDGTIR-----SNGSCLTTYGY-----70
Db 168 DVVNEAFEDGNSGRCDNLORTGND---WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223
QY 71 --TAGVYVMI-----FDCNTAVREATIWIQWINDGTIINPRSNLVLAASSGIKGTLL 119
Db 224 AKTQAVYVMVRDFKSRGVPIDC-----VGFOSHENSNGPNPNFRTTLOQFAAL-GVDV 276
QY 120 TVQTLDTLGGQWLAGNDTAPRE-----VTIYGFDR-----LC 152
Db 277 EVTELDI-----ENAPATYASVIRDCIADVDRCTGITVWGVDRSDSWSRVSQNPPLL 326
QY 153 MESN-----GGSVWV-----ET 164
Db 327 FDNNGKKQAYYAVLDALNEGSDGGSNPPVSPPPGGSGQIRGVASNRCDIVPNGNT 386
QY 165 CDSQ-----KQGKVALYGDGSIIRPKQNDQCLTSGRDSVSTVINIVSCSGSGS 215
Db 387 ADGTQVQLYDCHSGSNQ-QWYTTSSGEFRIFGN--KCLDAGSSNGAVVQIYSCWGGA-N 442
QY 216 QRWVFTNEGAILNKLGLAMD-VAQANPKLRRIIIPATGKNQMW 260
Db 443 QKWELRADGTIVGVQSGLCILDVAGGGTGNGTRQLQLYSCWGGNNQKW 488

RESULT 13
US-08-468-812-5
; Sequence 5, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaaper, Jari
; APPLICANT: M nyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Krisko, Paula

```

;; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
;;
;; NUMBER OF SEQUENCES: 25
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
;; STREET: 1100 New York Ave., N.W.
;; CITY: Washington
;; STATE: D.C.
;; COUNTRY: U.S.A.
;; ZIP: 20005
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent in Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/468,812
;; FILING DATE: 06-JUN-1995
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/332,412
;; FILING DATE: 31-OCT-1994
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/282,001
;; FILING DATE: 29-JUL-1994
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Bugaisky, Larry B.
;; REGISTRATION NUMBER: 35,086
;; REFERENCE/DOCKET NUMBER: 1050.0340002
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 202-371-2600
;; TELEFAX: 202-371-2540
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 480 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: not relevant
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; POSITION IN GENOME:
;; CHROMOSOME/SEGMENT: AM50
;;
;; US-08-468-812-5
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Best Local Similarity 32.4%; Pred. No. 0.0002;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;
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Db 379 IDVPNGNTADGTQVQLYDCHSGS--NQWYTSSEGFIFGNKCLDAGSSNGAVVQIYS 436
QY 81 CNTAVREATIWIQWINDGTTINPRSNLVLAASSGIGKTTLTQ 122
Db 437 CWGGANQK--WELRADGTIVGVQSGLCGLDAGVGGTGTGTRLQ 476
RESULT 14
US-08-590-563-5
; Sequence 5, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmaaper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Palohelmo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
;; STREET: 1100 New York Ave., N.W. Suite 600
;; CITY: Washington
;; STATE: D.C.
;; COUNTRY: U.S.A.
;; ZIP: 20005
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent in Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/590,563
;; FILING DATE: 26-JAN-1996
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/468,812
;; FILING DATE: 06-JUN-1995
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/332,412
;; FILING DATE: 31-OCT-1994
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/282,001
;; FILING DATE: 29-JUL-1994
;; CLASSIFICATION: 536
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Bugaisky, Lawrence B.
;; REGISTRATION NUMBER: 35,086
;; REFERENCE/DOCKET NUMBER: 1050.0340003
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 202-371-2600
;; TELEFAX: 202-371-2540
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 480 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: not relevant
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; POSITION IN GENOME:
;; CHROMOSOME/SEGMENT: AM50
;;
;; US-08-590-563-5
;;
Query Match 8.6%; Score 122.5; DB 4; Length 480;
Best Local Similarity 32.4%; Pred. No. 0.0002;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;
QY 22 VDVRDDDFHGNQIQLPWPKSNNDPNQLWTIKRDGTIRSNGS-CLTTYGYTAGVYVWIFD 80
Db 379 IDVPNGNTADGTQVQLYDCHSGS--NQWYTSSEGFIFGNKCLDAGSSNGAVVQIYS 436
QY 81 CNTAVREATIWIQWINDGTTINPRSNLVLAASSGIGKTTLTQ 122
Db 437 CWGGANQK--WELRADGTIVGVQSGLCGLDAGVGGTGTGTRLQ 476
RESULT 15
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; Sequence 8, Application US/08468812
; Patent No. 593636
; GENERAL INFORMATION:
; APPLICANT: Vehmaaper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Palohelmo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: Of Use

us-09-601-667c-7.ra1

Sat Mar 22 10:41:42 2003

NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNER, KESSLER, GOLSTEIN & FOX
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/468,812
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Larry B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 491 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: M64551

US-08-468-812-8
Query Match 8.6%; Score 122.5; DB 2; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.00021;
Matches 40; Conservative 20; Mismatches 61; Indels 19; Gaps 6;
QY 7 ASEP-----TVRIVGRNGMRVDRDDDFHGNQIQWLWPSKSNNDPNQLWTIKRD 55
DB 354 SSEPPXXXXXADGGQIKGVG-SGECLDVPDASTDGTQLQLMDCHSGT--NQQWAATDA 410
QY 56 GTIRSG-SCLTYGYTAGVYMFDCNTAVREATIWIQWINDGTIINPRSNLVLA--SS 112
DB 411 GELRVYGDRCCLDAAGTSNGSKVQIYSCWGDNQK--WRLNSDGSVGVQSGCLDAVNG 468
QY 113 GIKGTITLVQITLDYTLGGW 132
DB 469 TANGTILQLYTCNSNGSNQW 488

Search completed: March 22, 2003, 09:59:42
Job time : 10.1481 secs

GenCore version 5.1.4.p5 4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 9.27635 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-8

Perfect score: 1414

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCRT_NEW_PUB pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
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14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1300.5	92.0	263	10	US-09-347-064-10
2	1300.5	92.0	267	10	US-09-347-064-4
3	120.5	8.5	145	12	US-10-074-527-5
4	120.5	8.5	135	9	US-09-973-457-5
5	120.5	8.5	135	12	US-10-074-527-6
6	119.5	8.5	491	10	US-09-770-621-8
7	116.5	8.2	480	10	US-09-770-621-5
8	116.5	8.2	492	10	US-09-770-621-4
9	116.5	8.2	492	10	US-09-770-621-7
10	90	6.4	1723	10	US-09-841-132-394
11	90	6.4	1723	10	US-09-841-132-395
12	88	6.2	295	10	US-09-815-242-11833
13	84	5.9	1781	9	US-09-995-749A-2
14	83.5	5.9	579	12	US-10-001-851-29
15	83	5.9	770	10	US-09-815-656-31
16	82	5.8	833	10	US-09-815-242-10951
17	82	5.8	2353	10	US-09-797-862-33
18	81.5	5.8	425	9	US-09-813-398-32
19	81	5.7	612	12	US-10-001-851-25

20	81	5.7	664	9	US-09-928-457-41	Sequence 41, Appl
21	81	5.7	833	9	US-09-928-457-40	Sequence 40, Appl
22	81	5.7	2771	9	US-09-808-602-82	Sequence 82, Appl
23	80	5.7	434	10	US-09-770-621-6	Sequence 6, Appl
24	79.5	5.6	559	12	US-10-001-851-23	Sequence 23, Appl
25	78.5	5.6	509	12	US-10-072-152-6	Sequence 6, Appl
26	78.5	5.6	608	10	US-09-924-358-8	Sequence 8, Appl
27	77.5	5.5	626	12	US-10-001-851-27	Sequence 27, Appl
28	77	5.4	543	9	US-09-993-525-6	Sequence 6, Appl
29	77	5.4	1737	9	US-09-808-602-83	Sequence 83, Appl
30	77	5.4	2724	9	US-09-808-602-13	Sequence 13, Appl
31	77	5.4	2733	9	US-09-808-602-8	Sequence 8, Appl
32	75.5	5.3	356	9	US-09-976-059-8	Sequence 18, Appl
33	75.5	5.3	435	9	US-10-000-512-18	Sequence 24, Appl
34	75.5	5.3	559	12	US-10-002-050-22	Sequence 22, Appl
35	75.5	5.3	624	9	US-10-002-304-22	Sequence 22, Appl
36	75.5	5.3	624	9	US-10-002-304-22	Sequence 22, Appl
37	75.5	5.3	624	12	US-10-003-152-22	Sequence 22, Appl
38	75.5	5.3	776	10	US-09-765-272-86	Sequence 86, Appl
39	75.5	5.3	833	9	US-10-149-819-4	Sequence 4, Appl
40	75	5.3	359	10	US-09-888-358-3	Sequence 3, Appl
41	75	5.3	1407	10	US-09-815-242-14042	Sequence 14042, A
42	74.5	5.3	1536	9	US-10-092-880-2	Sequence 2, Appl
43	74	5.2	207	10	US-09-780-717-26	Sequence 26, Appl
44	74	5.2	498	9	US-09-738-626-4737	Sequence 4737, Ap
45	74	5.2	672	9	US-09-792-630-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1
US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; EARLIER FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-10

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Best Local Similarity	93.5%	Pred. No. 3.7e-116;		
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QY	61	NGSCLTTGYTAGVYVMIFDCNTAVREATTIWIWDNGTIINPRSNLVLAASSGKGTTLT	120	
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QY	121	VOTLDYTLGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSOKNQKWAYLGD	180	
Db	121	VOTLDYTLGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSOKNQKWAYLGD	179	

Sat Mar 22 10:41:47 2003

QY 181 GSIRPKQNDQCLTVGRDSVSTVINIVSCGASGSGORWVFTNEYAILNLKSLGSLAMDVAQA 240
 DB 180 GSIRPKQNDQCLTVGRDSVSTVINIVSCGASGSGORWVFTNEGAILNLKSLGSLAMDVAQA 239
 QY 241 NPKLRRIIYPATGKPNQMWLPV 263
 DB 240 NPKLRRIIYPATGKPNQMWLPV 262

RESULT 2
 US-09-347-064-4
 ; Sequence 4, Application US/09347064A
 ; Patent No. US20020045208A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Eck, Jurgen
 ; APPLICANT: Schmidt, Arno
 ; APPLICANT: Zinke, Holger
 ; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
 ; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
 ; TITLE OF INVENTION: album
 ; FILE REFERENCE: 09282-5
 ; CURRENT APPLICATION NUMBER: US/09/347,064A
 ; CURRENT FILING DATE: 1999-07-02
 ; EARLIER APPLICATION NUMBER: PCT/EP98/00009
 ; EARLIER FILING DATE: 1998-01-02
 ; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
 ; EARLIER FILING DATE: 1997-01-02
 ; NUMBER OF SEQ ID NOS: 38
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 4
 ; LENGTH: 267
 ; TYPE: PRT
 ; ORGANISM: Viscum album
 ; US-09-347-064-4

Query Match 92.0%; Score 1300.5; DB 10; Length 267;
 Best Local Similarity 93.5%; Pred. No. 3.8e-116;
 Matches 246; Conservative 4; Mismatches 12; Indels 1; Gaps 1;
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 QY 61 NGSLTYGTAGVYVIMFDCNTAVREATIWIQWNGTIINPRSNLVLAASSGKIGTTLT 120
 DB 61 NGSLTYGTAGVYVIMFDCNTAVREATIWIQWNGTIINPRSNLVLAASSGKIGTTLT 120
 QY 121 VOTLDYTLGGWLAGNDTAPREVITYIGFRDLCEWESNOGSVWVETCDSSQKQKVALYGD 180
 DB 121 VOTLDYTLGGWLAGNDTAPREVITYIGFRDLCEWESNOGSVWVETCDSSQKQKVALYGD 179
 QY 181 GSIRPKQNDQCLTVGRDSVSTVINIVSCGASGSGORWVFTNEYAILNLKSLGSLAMDVAQA 240
 DB 180 GSIRPKQNDQCLTVGRDSVSTVINIVSCGASGSGORWVFTNEGAILNLKSLGSLAMDVAQA 239
 QY 241 NPKLRRIIYPATGKPNQMWLPV 263
 DB 240 NPKLRRIIYPATGKPNQMWLPV 262

RESULT 3
 US-10-074-527-5
 ; Sequence 5, Application US/10074527
 ; Patent No. US20020142426A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Olandt, Peter J.
 ; APPLICANT: Meyers, Rachel B.
 ; APPLICANT: Galvin, Katherine A.
 ; APPLICANT: Millennium Pharmaceuticals Inc.
 ; TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
 ; FILE REFERENCE: MFI2001-0181RCP1(M)
 ; CURRENT APPLICATION NUMBER: US/10/074,527

; CURRENT FILING DATE: 2002-02-12
 ; PRIOR APPLICATION NUMBER: 60/269202
 ; PRIOR FILING DATE: 2001-02-15
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 145
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: consensus
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 Best Local Similarity 32.8%; Pred. No. 1e-08;
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 DB 7 TILVNGSGRCLDVNSSESDEGQVQLWNCNPGKNQKWSLTYSDESGEIRSVVNNDKC 66
 QY 65 LTTYGTAGVYVIMFDCNTAVREATIWIQWNGTIINP-----RSNLVL--AASSGKIG 116
 DB 67 LTVNANSPGSEVKLYQDSATSDNQKWLNDGLIGNKILLNLVNTGLVLDVKGSDTQNG 126
 QY 117 TTLTVQTLDTLGGQWL 133
 DB 127 TKLILYTCSGGRNQWL 143

RESULT 4
 US-09-973-457-5
 ; Sequence 5, Application US/09973457
 ; Patent No. US20020164746A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kapeller-Libermann, Rosana
 ; TITLE OF INVENTION: 47174, A NOVEL HUMAN GLYCOSYLTRANSFERASE
 ; FILE REFERENCE: 10448-099001
 ; CURRENT APPLICATION NUMBER: US/09/973,457
 ; CURRENT FILING DATE: 2001-10-09
 ; PRIOR APPLICATION NUMBER: 60/238,849
 ; PRIOR FILING DATE: 2000-10-06
 ; NUMBER OF SEQ ID NOS: 6
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 135
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Consensus sequence
 ; US-09-973-457-5
 Query Match 8.5%; Score 120.5; DB 9; Length 135;
 Best Local Similarity 29.1%; Pred. No. 0.00031;
 Matches 41; Conservative 19; Mismatches 60; Indels 21; Gaps 8;
 QY 14 IVGRSGMRVDR--RDDPHDGNQIQLWPSKSNNDPNQLWTI---KRDNTIRSNGS-CLTT 67
 DB 7 IGGNTGLCLDVNGNSSEKSDGNPQVQLWCHGGG--NQLWKLTYNESDGAIRNSDCLTV 64
 QY 68 YGYTAGVYVIMFDCNTAVR--EATIIQWNGTIINPRSNLVLAASSGKIGTTLTVQTLTD 125
 DB 65 NG-----TVTLYSCDGTGKNDNQKWEVKNKDGITIRNPK-NSKKGYDSG-----LCLDVKD 113
 QY 126 YTLGGWLAGNDTAPREVITY 146
 DB 114 GNVQLWTCNGSDAPNQKWF 134

RESULT 5
 US-10-074-527-6
 ; Sequence 6, Application US/10074527

```

; Patent No. US20020142426A1
; GENERAL INFORMATION:
; APPLICANT: Olandt, Peter J.
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Galvin, Katherine A.
; APPLICANT: Millennium Pharmaceuticals Inc.
; TITLE OF INVENTION: 33945 A Human Glycosyltransferase and
; FILE OF INVENTION: Uses Therefor
; FILE REFERENCE: MP12001-018P/RCPI (M)
; CURRENT APPLICATION NUMBER: US/10/074,527
; PRIOR FILING DATE: 2002-02-12
; PRIOR FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 135
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus
US-10-074-527-6

Query Match      8.5%; Score 120.5; DB 12; Length 135;
Best Local Similarity 29.1%; Pred. No. 0.00031;
Matches 41; Conservative 19; Mismatches 60; Indels 21; Gaps 8;

QY 14 IVGRSGMRVDV--RDDDFHGNQIQWLPSKSNNDPNQIWTI---KRDNTIRNGS-CLTT 67
Db 7 IGGNTGLCLDVNGNSEKSDGNPVLWDCHGG--NQLWKLTYNESDGAIRNSDCLTV 64

QY 68 YGYTAGVYVIFDONTAVR--EATIQIWDNGTIIINPRSNLVLAASSGKIGTTLTVQIILD 125
Db 65 NG-----TVTLYSYCDGTDKNDNQKVEVNDGIRNPK-NSKGVDSG-----LCLVKD 113

QY 126 YTLQGGWLAGNDTAPREVITY 146
Db 114 GNVQVLTWTCNGSDAPNQKWF 134

RESULT 6
US-09-770-621-8
; Sequence 8, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaamer , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:

```

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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: NO. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
US-09-770-621-8

Query Match      8.5%; Score 119.5; DB 10; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.0021;
Matches 40; Conservative 19; Mismatches 62; Indels 19; Gaps 6;

QY 7 ASP-----TVRIVGSGMRVDVDDDFHGNQIQWLPSKSNNDPNQLWTIKRD 55
Db 354 SSEPXXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQWDCSQT--NQWAAATDA 410

QY 56 NTIRSG-SCLTTYGYTAGVYVIMIFDCNTAVREATIWOIWDNGTIIINPRSNLVLAA--SS 112
Db 411 GELRVYGDKCLDAAGTSGKQVYISYCWGGDNQK--WRLNSDGSVVGVQSGLCILDVAVNG 468

QY 113 GIKGTTLTVTQTLDTLGGQW 132
Db 469 TANGTLIQLYTCNSNGSNQRW 488

RESULT 7
US-09-770-621-5
; Sequence 5, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaamer , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:

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CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/590,563
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 492 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-770-621-4

Query Match      8.2%; Score 116.5; DB 10; Length 492;
Best Local Similarity 31.4%; Pred.No. 0.0041;
Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 YDVRDDFDHGNQIQIQLWPSKSNNDPNQLWTIKRDNITRSNGS-CUTTYGYTAGYVVMIFD 80
DB 379 IDVPNGNTADGTQQLDYDCHSGS--NQQYTTSSGEFRIFGNKCLDAGSGNGAVVQIYS 436

QY 81 CNTAVREATIWOINDNGTIIINPRSNLVLAASSG1KGTITLVQ 122
DB 437 CWGGANQK--WELRADGTIVGVQSGICLDVAGGTGNGTRLQ 476

RESULT 9
US-09-770-621-7
; Sequence 7, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Birko
; APPLICANT: Lahtinen, Raija
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563

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[illegible]

FILING DATE: 29-JUL-1994
 CLASSIFICATION: 08/332,412
 PRIOR APPLICATION DATA:
 FILING DATE: 31-OCT-1994
 CLASSIFICATION: 08/332,412
 PRIOR APPLICATION DATA:
 FILING DATE: 29-JUL-1994
 CLASSIFICATION: 08/332,412
 FILING DATE: 29-JUL-1994
 CLASSIFICATION: 08/332,412
 ATTORNEY/AGENT INFORMATION:
 NAME: Bugalsky, Lawrence B.
 REGISTRATION NUMBER: 35,086
 REFERENCE/DOCKET NUMBER: 1050.0340003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 492 amino acids
 TYPE: amino acid
 STRANDEDNESS: No. US20010024815A1 Relevant
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: AM50
 US-09-770-621-7

Query Match 8.2%; Score 116.5; DB 10; Length 492;
 Best Local Similarity 31.4%; Pred. No. 0.0041;
 Matches 32; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 VVRRDDPHDQNLQIQLWPSKSNNDPNQLWIKRDNIRNGS-CLTYGYTGVYVYVIMFD 80
 DB 379 IDVNGNTADGTQVLYDCHSGS--NQWYTSSEFRIFGNKCLDAGGSSNGAVVQIYS 436
 QY 81 CNTAVREATIWIQNDGTIINPRNLVLAASSGKGTTLTVQ 122
 DB 437 CWGANOK--WELRADGTIVGVQSLCLDAVGGGTNGIRLQ 476

RESULT 10
 US-09-841-132-394
 ; Sequence 394, Application US/09841132
 ; Patent No. US20020061848A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: FastSeq for Windows Version 3.0/4.0
 ; SEQ ID NO 394
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-394

Query Match 5.4%; Score 90; DB 10; Length 1723;
 Best Local Similarity 22.2%; Pred. No. 7.1;
 Matches 61; Conservative 32; Mismatches 86; Indels 96; Gaps 10;
 QY 51 TIKRDNIRNGSCLTYGYT--AGVYVIMFDNTA-----VREATIWIQNDW---- 96
 DB 223 TPTGNSQKSGGAAYTEGALTQAIVEAVTGTNTSAGQGAIVYVKEATLFDNLSLKFE 282
 QY 97 -----GTIINPRNLVL-----AASSGKGTTLTVQ 123
 DB 283 KNTSGAGGGIYTESTLTISNITSIEFISNKASVPAPAPPTSPAPSSLINSTTIDTST 342

QY 124 L-----DYTLGGWLAGNDTAPREVTIYGFRLDLCMESNOGS 159
 DB 343 LQTRAASATPAVAVPAVTPPTISTQETAGNG---GAIYAKQGISISTFKDLTFKSNAS 399
 QY 160 VVVE--TCDSSQKNGKALYGGGSIRPKQNDQCL-----TVGRDSVSTVI 204
 DB 400 VDATLTVDSSTIGSGGAIFAADSIQOCTGTTLFSGNTANKSGGGIYAVGVQVTLEDIA 459
 QY 205 NIV-----SCSGASG---SQRWVFTNEYAILNLKSG 232
 DB 460 NLKMTNNTCKEGGAIYTKKALTINNGAILTTFSG 494

RESULT 11
 US-09-841-132-395
 ; Sequence 395, Application US/09841132
 ; Patent No. US20020061848A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: FastSeq for Windows Version 3.0/4.0
 ; SEQ ID NO 395
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-395

Query Match 6.4%; Score 90; DB 10; Length 1723;
 Best Local Similarity 22.2%; Pred. No. 7.1;
 Matches 61; Conservative 32; Mismatches 86; Indels 96; Gaps 10;

QY 51 TIKRDNIRNGSCLTYGYT--AGVYVIMFDNTA-----VREATIWIQNDW---- 96
 DB 223 TPTGNSQKSGGAAYTEGALTQAIVEAVTGTNTSAGQGAIVYVKEATLFDNLSLKFE 282
 QY 97 -----GTIINPRNLVL-----AASSGKGTTLTVQ 123
 DB 283 KNTSGAGGGIYTESTLTISNITSIEFISNKASVPAPAPPTSPAPSSLINSTTIDTST 342
 QY 124 L-----DYTLGGWLAGNDTAPREVTIYGFRLDLCMESNOGS 159
 DB 343 LQTRAASATPAVAVPAVTPPTISTQETAGNG---GAIYAKQGISISTFKDLTFKSNAS 399
 QY 160 VVVE--TCDSSQKNGKALYGGGSIRPKQNDQCL-----TVGRDSVSTVI 204
 DB 400 VDATLTVDSSTIGSGGAIFAADSIQOCTGTTLFSGNTANKSGGGIYAVGVQVTLEDIA 459
 QY 205 NIV-----SCSGASG---SQRWVFTNEYAILNLKSG 232
 DB 460 NLKMTNNTCKEGGAIYTKKALTINNGAILTTFSG 494

RESULT 12
 US-09-815-242-11833
 ; Sequence 11833, Application US/09815242
 ; Patent No. US20020061569A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari L.
 ; APPLICANT: Zyskind, Judith W.
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John D.
 ; APPLICANT: Carr, Grant J.
 ; APPLICANT: Yamamoto, Robert T.
 ; APPLICANT: Xu, H. Howard

Query Match

Best Local Similarity 20.8%; Score 84; DB 9; Length 1781;

Matches 59; Conservative 40; Mismatches 123; Indels 62; Gaps 11;

2 DVTCSASEPTVRIV-----GRSGMRVDRD-----DFHDGNOIQWLWPSKSNNDPNQW 50

175 DVNNVARPDVKNVHVNADNSGDFVNVNIDFSKMKDYRD--SIEIVSRVSGNGKSDVM 232

51 TKRDNTRISNGSCLTYGYTAGV-----YVMIFDCNTAVREATIQQ 92

233 WSQPIITFDKNNYAYLDTFEVKNGELHATGNATNSAINVNHFFVILFD-QTNGKEVARQE 291

93 IWDNGT---IINPRSNLVAASGKGTTLTVQTLDTY-----LGQG----- 131

292 VREGQSRPDVAKVVPQVGAANSFG-NVTFNISLDLDYTHQVQVLSRYNSNDGEGDNTY 350

132 WLAGNDTAPREVITYGFRDLCHMESNGSVWV---ETCDSQKNOGKQWALYGDGSRPKON 188

351 WFNQSIAPANQNOGYLDSFDISKNGEVTVTGNATDLSELQNNHYVILFDQTAGKQVA 410

189 QDOCLTVGRDSVSTVINIVSCSGASGSRQWVFTNEVAILNLKSG 232

411 SAKADLISRPDVAKAYPTVKTATNSG-----FKVTFKVNLPQF 449

US-09-815-242-11833

6.2%; Score 88; DB 10; Length 295;

Best Local Similarity 20.2%; Pred. No. 1.1;

Matches 47; Conservative 31; Mismatches 91; Indels 64; Gaps 8;

2 DVTCSASEPTVRIVGRSGMRVDRD-----DFHDGNOIQWLWPSKSNNDPNQW 61

37 DVNAALEETROLLASSGVSVSTAVDVADREQVQWADKAASEHG-----RVNLIFFN 90

62 GSCL---TIVGYTAGVYVIFDCNTAVREATIQQIWD-----NGTIINPRSN 105

91 AGVAHAGTVEGSDYSYEWIMIN-----FWGVNGTKAFPLHLKASGNHVVNVSSV 143

106 LVLAASGSGIKGTTLTQTLDTYTLGQWLAGNDTAPREVITYG-----RDLCMES----- 155

144 FGLFAPQFGMAYNAT-----KYAVRGFTESLRQELDMEDSGVSA 182

156 ---NOGSVWVETDSSQKNOGKQWALYGDGSRPK-QNDOCLTVGRDSVSTVI 204

183 SCVHPGGIKTNIARTARMNESMAKVTQAPDKAREQFNDQLLTTPKAAQVI 235

US-09-995-749A-2

Sequence 2, Application US/09995749A

Patent No. US20020155568A1

GENERAL INFORMATION:

APPLICANT: VAN GEEL-SCHUTTEN, GERRITDINA HENDRIKA

APPLICANT: DIJKHUIZEN, LUBBERT

APPLICANT: RAHAOUI, HAKIM

APPLICANT: LEER, ROBERT-JAN

TITLE OF INVENTION: NOVEL GLUCOSYLTRANSFERASES

FILE REFERENCE: B043388-CIP

CURRENT APPLICATION NUMBER: US/09/995,749A

CURRENT FILING DATE: 2001-11-29

PRIOR APPLICATION NUMBER: 09/604,957

PRIOR FILING DATE: 2000-06-28

PRIOR APPLICATION NUMBER: EPO 00201871.1

PRIOR FILING DATE: 2000-05-25

NUMBER OF SEQ ID NOS: 19

SOFTWARE: Patent In Ver. 2.1

SEQ ID NO 2

LENGTH: 1781

TYPE: PRP

ORGANISM: Lactobacillus reuteri

US-09-995-749A-2

Query Match

Best Local Similarity 20.8%; Score 84; DB 9; Length 1781;

Matches 59; Conservative 40; Mismatches 123; Indels 62; Gaps 11;

2 DVTCSASEPTVRIV-----GRSGMRVDRD-----DFHDGNOIQWLWPSKSNNDPNQW 50

175 DVNNVARPDVKNVHVNADNSGDFVNVNIDFSKMKDYRD--SIEIVSRVSGNGKSDVM 232

51 TKRDNTRISNGSCLTYGYTAGV-----YVMIFDCNTAVREATIQQ 92

233 WSQPIITFDKNNYAYLDTFEVKNGELHATGNATNSAINVNHFFVILFD-QTNGKEVARQE 291

93 IWDNGT---IINPRSNLVAASGKGTTLTVQTLDTY-----LGQG----- 131

292 VREGQSRPDVAKVVPQVGAANSFG-NVTFNISLDLDYTHQVQVLSRYNSNDGEGDNTY 350

132 WLAGNDTAPREVITYGFRDLCHMESNGSVWV---ETCDSQKNOGKQWALYGDGSRPKON 188

351 WFNQSIAPANQNOGYLDSFDISKNGEVTVTGNATDLSELQNNHYVILFDQTAGKQVA 410

189 QDOCLTVGRDSVSTVINIVSCSGASGSRQWVFTNEVAILNLKSG 232

411 SAKADLISRPDVAKAYPTVKTATNSG-----FKVTFKVNLPQF 449

US-10-001-851-29

Sequence 29, Application US/10001851

Patent No. US20020115628A1

GENERAL INFORMATION:

APPLICANT: MEYERS, Rachel A.

APPLICANT: WILLIAMSON, Mark

TITLE OF INVENTION: 47169 and 33935, No. US20020115628A1 Human Glycosyl Transferase

TITLE OF INVENTION: Uses Thereof

FILE REFERENCE: 10147-56U1

CURRENT APPLICATION NUMBER: US/10/001.851

CURRENT FILING DATE: 2001-11-20

PRIOR APPLICATION NUMBER: US 60/249,939

PRIOR FILING DATE: 2000-11-20

NUMBER OF SEQ ID NOS: 29

SOFTWARE: Patent In Ver. 2.1

SEQ ID NO 29

LENGTH: 579

TYPE: PRP

ORGANISM: Caenorhabditis elegans

US-10-001-851-29

Query Match

Best Local Similarity 22.7%; Pred. No. 7;

Matches 35; Conservative 23; Mismatches 49; Indels 47; Gaps 6;

114 IKGTTTLTVQTL-----DYTLGGWLAGNDTAPREVITYGFRDLCHMESNQGSVWVETCDS 167

458 VSGTRMCTDTLQREKMSQLLVGFHCGKSGSPQLMSL-----SKEGNLRRENTCA 508

168 SOKNOGKQWALYGDGSRPKONQDOCLTVGRDSVSTVINIVSCS-CASGSRQWVFTNEVAI 226

509 SEEN-----GNIRMK-----TCSKKAQFMRWAYENK-MI 537

227 LNLKSGGLAMVAQANPKLRILIIYPATGKQNMW 260

538 RNLKSGKCMSTANLKPQDINAIVVECEKDEKHEQKW 571

US-09-815-656-31

Sequence 31, Application US/09815656

Patent No. US20010041331A1

GENERAL INFORMATION:

APPLICANT: Abbott Laboratories

APPLICANT: Leary, Thomas

APPLICANT: Erker, James

APPLICANT: Chalmers, Michelle

```
; APPLICANT: Simons, John
; APPLICANT: Birkenmeyer, Larry
; APPLICANT: Muerhoff, Scott
; APPLICANT: Pilot-Matias, Tami
; APPLICANT: Desai, Suresh
; APPLICANT: Mushahwar, Isa
; TITLE OF INVENTION: METHODS OF UTILIZING THE TT VIRUS
; FILE REFERENCE: 6461 US 01
; CURRENT APPLICATION NUMBER: US/09/815,656
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 09/245,248
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 71
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 770
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-815-656-31

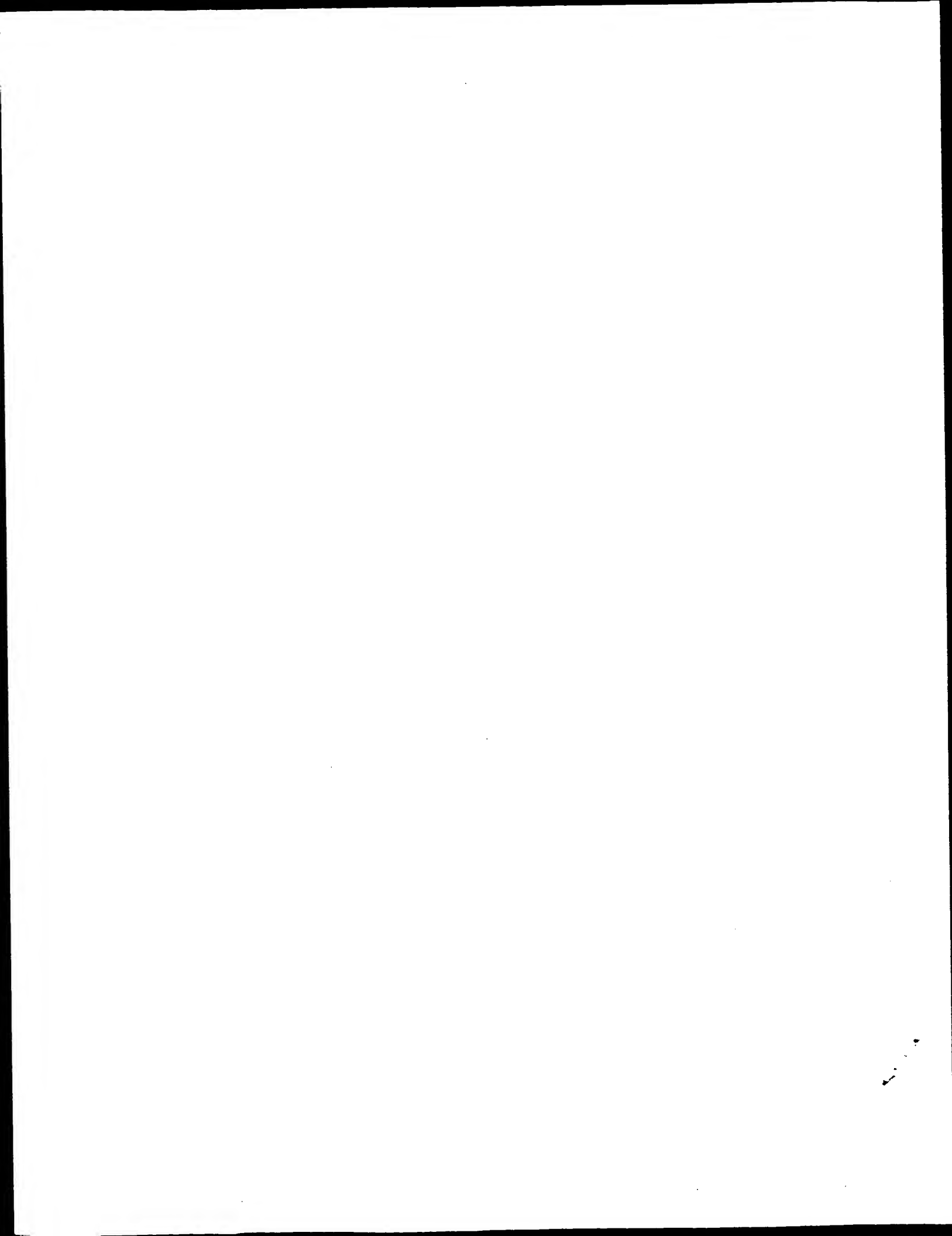
Query Match      5.9%; Score 83; DB 10; Length 770;
Best Local Similarity 23.4%; Pred. NO. 11;
Matches 39; Conservative 12; Mismatches 76; Indels 40; Gaps 7;

QY 56 NTIRSNGLTITYGYTAGVYVMIFDONTAVREATIWIWDNGTIINPR-----SNLV 107
Db 333 NTKFTTTTTTTTTPG-----TTNTVTFTANDSWYRGTVYNQIKDVAKKAAELY 385

QY 108 LAASSGIKGTTLTVQTLDTLQCG-----WLAGNDT---APREVTIYGFRLCMESNQ 157
Db 386 SKATKAVLGNFTT--TEDYTLGYHGGLYSSIWLSPGRSYFETPGAYTDIKYNPFTDRGEG 443

QY 158 GSVWVETCDSSQKQK-----W-ALYGDGSIIRPKQNDQ 191
Db 444 NMLWIDWLSKKNYDKVQSKCLISDLPFWAAAYVEFCAKSTGDQ 490

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Job time : 12.2764 secs
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GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 8.14815 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-8

Perfect score: 1414

Sequence: 1 DDVTCASAEPTVIRVGRSGM.....RRIIYPATGKNQWMLPVF 264

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*
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3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
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5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	ID	Description
1	1300.5	92.0	263	4	US-08-776-059-43	Sequence 43, Appl
2	1300.5	92.0	264	4	US-08-776-059-33	Sequence 33, Appl
3	1300.5	92.0	564	4	US-08-776-059-35	Sequence 35, Appl
4	764.5	54.1	540	1	US-08-378-761A-77	Sequence 77, Appl
5	764.5	54.1	540	1	US-08-485-286-77	Sequence 77, Appl
6	179	12.7	293	4	US-09-512-342-14	Sequence 14, Appl
7	125	8.8	132	4	US-09-159-106-15	Sequence 15, Appl
8	125	8.8	435	4	US-09-159-106-11	Sequence 11, Appl
9	119.5	8.5	491	2	US-08-468-812-8	Sequence 8, Appl
10	119.5	8.5	491	4	US-08-590-563-8	Sequence 8, Appl
11	119	8.4	127	1	US-08-392-828C-39	Sequence 39, Appl
12	119	8.4	127	3	US-09-330-945-39	Sequence 39, Appl
13	116.5	8.2	480	2	US-08-468-812-5	Sequence 5, Appl
14	116.5	8.2	480	4	US-08-590-563-5	Sequence 5, Appl
15	116.5	8.2	492	2	US-08-468-812-4	Sequence 4, Appl
16	116.5	8.2	492	2	US-08-468-812-7	Sequence 7, Appl
17	116.5	8.2	492	4	US-08-590-563-4	Sequence 4, Appl
18	116.5	8.2	492	4	US-08-590-563-7	Sequence 7, Appl
19	112.5	8.0	507	4	US-09-130-337A-25	Sequence 25, Appl
20	88	6.2	453	4	US-09-230-225B-4	Sequence 4, Appl
21	85	6.0	500	6	5171684-2	Patent No. 5171684
22	83.5	5.9	420	2	US-08-282-197C-63	Sequence 63, Appl
23	83.5	5.9	420	2	US-08-282-197C-66	Sequence 66, Appl
24	83	5.9	770	4	US-09-245-248B-31	Sequence 31, Appl
25	83	5.9	2314	4	US-09-268-347-49	Sequence 49, Appl
26	82.5	5.8	419	2	US-08-282-197C-64	Sequence 64, Appl
27	82.5	5.8	419	2	US-08-282-197C-67	Sequence 67, Appl

28	82	5.8	820	4	US-09-313-677-21	Sequence 21, Appl
29	82	5.8	926	4	US-09-313-677-2	Sequence 2, Appl
30	82	5.8	933	4	US-09-313-677-19	Sequence 19, Appl
31	82	5.8	967	4	US-09-313-677-17	Sequence 17, Appl
32	82	5.8	1912	1	US-08-409-995-4	Sequence 4, Appl
33	82	5.8	1912	3	US-08-685-487-4	Sequence 4, Appl
34	82	5.8	2353	4	US-09-377-155-33	Sequence 33, Appl
35	82	5.8	2353	4	US-08-913-942-4	Sequence 4, Appl
36	82	5.8	2353	4	US-09-669-974-33	Sequence 33, Appl
37	82	5.8	2354	4	US-09-268-347-47	Sequence 47, Appl
38	82	5.8	2411	4	US-09-268-347-36	Sequence 36, Appl
39	81.5	5.8	424	1	US-08-247-908A-11	Sequence 11, Appl
40	81.5	5.8	424	1	US-08-453-942-11	Sequence 11, Appl
41	81.5	5.8	424	2	US-08-926-885A-11	Sequence 11, Appl
42	81.5	5.8	424	5	PCT-US94-05290-11	Sequence 11, Appl
43	80	5.7	434	2	US-08-468-812-6	Sequence 6, Appl
44	80	5.7	434	4	US-08-590-563-6	Sequence 6, Appl
45	79.5	5.6	342	4	US-09-129-033-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-776-059-43
; Sequence 43, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; CURRENT APPLICATION NUMBER: 674503-2003
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-43

Query Match 92.0%; Score 1300.5; DB 4; Length 263;
Best Local Similarity 93.5%; Pred. No. 1.3e-123;
Matches 246; Conservative 4; Mismatches 12; Indels 1; Gaps 1;

QY	1	DDVTCASAEPTVIRVGRSGMRVDRDDFDHGNQIQLPWPSKNNNDPNQLTWKRTTIRS	60
Db	1	DDVTCASAEPTVIRVGRSGMRVDRDDFDHGNQIQLPWPSKNNNDPNQLTWKRTTIRS	60
QY	61	NGSCLTYYGTAGVYVWIFDCNTAVREATIWOIWDNGTIINPRSNLVLAASSGIGTTLT	120
Db	61	NGSCLTYYGTAGVYVWIFDCNTAVREATIWOIWDNGTIINPRSNLVLAASSGIGTTLT	120
QY	121	VQTLDTLGGWLAGNDTAPREVITYGFRDLCSNQSQSVVWVETCDSSQKQKQWALYGD	180
Db	121	VQTLDTLGGWLAGNDTAPREVITYGFRDLCSNQSQSVVWVETCDSSQKQKQWALYGD	179
QY	181	GSIRPKQNDQCLTVGRDSVSTVINIVSCSGAGSGQRVFTNEVAILNLSKGLAMVQAQ	240
Db	180	GSIRPKQNDQCLTVGRDSVSTVINIVSCSGAGSGQRVFTNEVAILNLSKGLAMVQAQ	239
QY	241	NPKLRRIIYPATGKNQWMLPVF	263
Db	240	NPKLRRIIYPATGKNQWMLPVF	262

RESULT 2

US-08-776-059-33
; Sequence 33, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-33

Query Match 92.0%; Score 1300.5; DB 4; Length 264;
Best Local Similarity 93.5%; Pred. No. 1.3e-123; Indels 1; Gaps 1;
Matches 246; Conservative 4; Mismatches 12;
QY 1 DDVTCASPTVRIIVGRSGMRVDRDDDFHDGNQIQLWPSKSNNDPNQLWTIKRDNTIRS 60
DB 2 DDVTCASPTVRIIVGRSGMRVDRDDDFHDGNQIQLWPSKSNNDPNQLWTIKRDNTIRS 61
QY 61 NGSLCTTYGTAGVYVIMFDCTAVREATIWIQWNGTIIINPRSNLVLAASSGKGTTLT 120
DB 62 NGSLCTTYGTAGVYVIMFDCTAVREATIWIQWNGTIIINPRSNLVLAASSGKGTTLT 121
QY 121 VQTLDTYLGQWLAGNDTAPREVTIYGFRLDLCMESNOGSVWVETCDSSOKNOGWALYGD 180
DB 122 VQTLDTYLGQWLAGNDTAPREVTIYGFRLDLCMESNOGSVWVETCDSSOKNOGWALYGD 180
QY 181 GSIRPKQNOQCLTVGRDSVSTVINIVSCSGASGSGQRWVFTNEYAILNLKSLGLAMDVAQA 240
DB 181 GSIRPKQNOQCLTVGRDSVSTVINIVSCSGASGSGQRWVFTNEYAILNLKSLGLAMDVAQA 240
QY 241 NPKLRRIIYPATGKNQMWLPV 263
DB 241 NPKLRRIIYPATGKNQMWLPV 263

RESULT 3

US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Viscum album

US-08-776-059-35

Query Match 92.0%; Score 1300.5; DB 4; Length 564;
Best Local Similarity 93.5%; Pred. No. 3.8e-123; Indels 1; Gaps 1;
Matches 246; Conservative 4; Mismatches 12;
QY 1 DDVTCASPTVRIIVGRSGMRVDRDDDFHDGNQIQLWPSKSNNDPNQLWTIKRDNTIRS 60
DB 302 DDVTCASPTVRIIVGRSGMRVDRDDDFHDGNQIQLWPSKSNNDPNQLWTIKRDNTIRS 361
QY 61 NGSLCTTYGTAGVYVIMFDCTAVREATIWIQWNGTIIINPRSNLVLAASSGKGTTLT 120
DB 362 NGSLCTTYGTAGVYVIMFDCTAVREATIWIQWNGTIIINPRSNLVLAASSGKGTTLT 421
QY 121 VQTLDTYLGQWLAGNDTAPREVTIYGFRLDLCMESNOGSVWVETCDSSOKNOGWALYGD 180
DB 422 VQTLDTYLGQWLAGNDTAPREVTIYGFRLDLCMESNOGSVWVETCDSSOKNOGWALYGD 480
QY 181 GSIRPKQNOQCLTVGRDSVSTVINIVSCSGASGSGQRWVFTNEYAILNLKSLGLAMDVAQA 240
DB 481 GSIRPKQNOQCLTVGRDSVSTVINIVSCSGASGSGQRWVFTNEYAILNLKSLGLAMDVAQA 540
QY 241 NPKLRRIIYPATGKNQMWLPV 263
DB 541 NPKLRRIIYPATGKNQMWLPV 563

RESULT 4

US-08-378-761A-77
; Sequence 77, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-77

Query Match 54.1%; Score 764.5; DB 1; Length 540;
Best Local Similarity 55.0%; Pred. No. 5.6e-69;
Matches 143; Conservative 43; Mismatches 73; Indels 1; Gaps 1;

QY 5 CSASEPTVIRIVGRSGMRVDRDDDFHGNQIOLWPSKSNNDPNQLWTIKRDNITRSNGSC 64
 Db 282 CWDPEPIVIRIVGRNGLCVDVTGEFFDGNPIQLWPCCKSNNDWNQLWTIKRDNITRSNGSC 341
 QY 65 LTTYGYTAGVYVVMIFDCNTAVREATIWOIWDNGTTINPRSNVLAASSGIGKTTLTQVTL 124
 Db 342 LTISKSPROQVVIYNCSTATVATRWQIWDNRTIINPRSGVLVLAATSGNSGKLTQVTL 401
 QY 125 DYTILGQWLGNDAPREVTIYGFRLCMESNOGSVWVETCDSSOKNOGKWLXGDSIR 184
 Db 402 IYAVSQWLPNTNTPFVTTIYGLYGMCLQANSKGVWLEDC-TSEKABQWALYADGSIR 460
 QY 185 PKNOQOCLTVGRSDSVSTVINIVSCSGASGSGORVFTNEYAILNLKSLAMDVAQANPKL 244
 Db 461 PQNRDNCCLTTDANIKGTIVVKILSGPASSGORMWFKNDGTILNLYNGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKNQWMLPVF 264
 Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 5

US-08-485-286-77
 ; Sequence 77, Application US/08485286
 ; Patent No. 5646026
 ; Patent No. 5646026 5646119
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSH, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; TITLE OF INVENTION: USING
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/485,286
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/378761
 ; FILING DATE: 26-JAN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 77:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 540 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-485-286-77

Query Match 54.1%; Score 764.5; DB 1; Length 540;
 Best Local Similarity 55.0%; Pred. No. 5.6e-69;
 Matches 143; Conservative 43; Mismatches 73; Indels 1; Gaps 1;

QY 5 CSASEPTVIRIVGRSGMRVDRDDDFHGNQIOLWPSKSNNDPNQLWTIKRDNITRSNGSC 64
 Db 282 CWDPEPIVIRIVGRNGLCVDVTGEFFDGNPIQLWPCCKSNNDWNQLWTIKRDNITRSNGSC 341
 QY 65 LTTYGYTAGVYVVMIFDCNTAVREATIWOIWDNGTTINPRSNVLAASSGIGKTTLTQVTL 124
 Db 342 LTISKSPROQVVIYNCSTATVATRWQIWDNRTIINPRSGVLVLAATSGNSGKLTQVTL 401
 QY 125 DYTILGQWLGNDAPREVTIYGFRLCMESNOGSVWVETCDSSOKNOGKWLXGDSIR 184
 Db 402 IYAVSQWLPNTNTPFVTTIYGLYGMCLQANSKGVWLEDC-TSEKABQWALYADGSIR 460
 QY 185 PKNOQOCLTVGRSDSVSTVINIVSCSGASGSGORVFTNEYAILNLKSLAMDVAQANPKL 244
 Db 461 PQNRDNCCLTTDANIKGTIVVKILSGPASSGORMWFKNDGTILNLYNGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKNQWMLPVF 264
 Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 6

US-09-512-342-14
 ; Sequence 14, Application US/09512342
 ; Patent No. 6388068
 ; GENERAL INFORMATION:
 ; APPLICANT: SATOH, SHINOBU
 ; APPLICANT: MASUDA, SUSUMU
 ; TITLE OF INVENTION: METHOD FOR PRODUCING FOREIGN POLYPEPTIDE IN PLANT
 ; TITLE OF INVENTION: INTERCELLULAR FLUID
 ; FILE REFERENCE: 081356/0142
 ; CURRENT APPLICATION NUMBER: US/09/512,342
 ; CURRENT FILING DATE: 2000-02-24
 ; NUMBER OF SEQ ID NOS: 38
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 293
 ; TYPE: PRT
 ; ORGANISM: Cucumis sativus
 ; US-09-512-342-14

Query Match 12.7%; Score 179; DB 4; Length 293;
 Best Local Similarity 26.6%; Pred. No. 3.7e-10;
 Matches 65; Conservative 36; Mismatches 103; Indels 40; Gaps 11;

QY 14 IVGRSGMRVDRDDDFHGNQIOLW-----PSK-----SNNDPNQLWTIKRDNITR-- 59
 Db 41 LVGRDGLCLEMSP-----WYKPAGINFFPTRLSPCDEKKQTQLWTIVGDTIRPM 89
 QY 60 SNGSCLTT---YGYTAGVYVVMIFDCNTAVREATIWOIWDNGTTINPRSNVLAASSGIGK 116
 Db 90 NDKFCLAAEFYGVIN--KAVVSECGKVSDDPNKWTOKNDGTIALVDSRMVLGTGLDY-- 145
 QY 117 TLTVTQTLDTYTLGQWLGNDAPREVTIYGFRLCMESNOGS--VWVETCDSSOKNOGK 174
 Db 146 --VTLOSQNYTPSSQWVETESLSNSMVANIEWLNLCIQSTDDSSHVLGNCGNTDKYQ-R 202
 QY 175 WALYGDGSGIRPKQOCLTVGRSDSVSTVINIVSCSGASGSGORVFTNEYAILNLKSL 233
 Db 203 WALYADGTIRQHVKNKYLSTSDQDFGRFV--VVSCKEDPKQQRWLSDAKDYTIDHPNTDM 260
 QY 234 AMDV 237
 Db 261 VLDV 264

RESULT 7

US-09-159-106-15
 ; Sequence 15, Application US/09159106
 ; Patent No. 6284509
 ; GENERAL INFORMATION:
 ; APPLICANT: Ferrer, Pau
 ; APPLICANT: Diers, Ivan

us-09-601-667c-8.ra1

Sat Mar 22 10:41:45 2003

QY 76 VMFDCNTAVREATIWIW--DNGT--IINPRSNVLAASSGI---KGTTLTVTQTLDTL 128
Db 375 VQVWTCN-----GTGAOKWAYDAGSKALRNPSGLCLDGTGAPLRDQRLQRTWTCNGTT 429

QY 129 GQGW 132
Db 430 AQOW 433

RESULT 9

US-08-468-812-8
; Sequence 8 Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: Of Use
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
; US-08-468-812-8

Query Match 8.5%; Score 119.5; DB 2; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.0008;
Matches 40; Conservative 19; Mismatches 62; Indels 19; Gaps 6;

QY

US-09-159-106-11
; Sequence 11, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrier, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
; US-09-159-106-11

Query Match 8.8%; Score 125; DB 4; Length 435;
Best Local Similarity 34.7%; Pred. No. 0.00019;
Matches 43; Conservative 12; Mismatches 53; Indels 16; Gaps 6;

QY 18 SGMRVDRDDDFHGDGQIQLWPSKSNNDPNQLTIKRDNIRNSGSLTTY--GYTAGVY 75
Db 14 NGMCDVDPWADPTDGNPQIVTCSGN--AAQTWRGSDGTVRALGKCLDVRDGSSTRGAA 71

QY 76 VMFDCNTAVREATIWIW--DNGT--IINPRSNVLAASSGI---KGTTLTVTQTLDTL 128
Db 72 VQVWTCN-----GTGAOKWAYDAGSKALRNPSGLCLDGTGAPLRDQRLQRTWTCNGTT 126

QY 129 GQGW 132
Db 127 AQOW 130

US-09-159-106-15
; Sequence 15, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrier, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
; US-09-159-106-15

Query Match 8.8%; Score 125; DB 4; Length 435;
Best Local Similarity 34.7%; Pred. No. 0.00019;
Matches 43; Conservative 12; Mismatches 53; Indels 16; Gaps 6;

QY 18 SGMRVDRDDDFHGDGQIQLWPSKSNNDPNQLTIKRDNIRNSGSLTTY--GYTAGVY 75
Db 317 NGMCDVDPWADPTDGNPQIVTCSGN--AAQTWRGSDGTVRALGKCLDVRDGSSTRGAA 374

QY 129 GQGW 132
Db 127 AQOW 130

US-09-159-106-15
; Sequence 15, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrier, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
; US-09-159-106-15

Query Match 8.8%; Score 125; DB 4; Length 435;
Best Local Similarity 34.7%; Pred. No. 0.00019;
Matches 43; Conservative 12; Mismatches 53; Indels 16; Gaps 6;

QY 18 SGMRVDRDDDFHGDGQIQLWPSKSNNDPNQLTIKRDNIRNSGSLTTY--GYTAGVY 75
Db 317 NGMCDVDPWADPTDGNPQIVTCSGN--AAQTWRGSDGTVRALGKCLDVRDGSSTRGAA 374

QY 129 GQGW 132
Db 127 AQOW 130

US-09-159-106-15
; Sequence 15, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrier, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
; US-09-159-106-15

Query Match 8.8%; Score 125; DB 4; Length 435;
Best Local Similarity 34.7%; Pred. No. 0.00019;
Matches 43; Conservative 12; Mismatches 53; Indels 16; Gaps 6;

QY 18 SGMRVDRDDDFHGDGQIQLWPSKSNNDPNQLTIKRDNIRNSGSLTTY--GYTAGVY 75
Db 317 NGMCDVDPWADPTDGNPQIVTCSGN--AAQTWRGSDGTVRALGKCLDVRDGSSTRGAA 374

QY 129 GQGW 132
Db 127 AQOW 130

US-09-159-106-15
; Sequence 15, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrier, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
; US-09-159-106-15

Query Match 8.8%; Score 125; DB 4; Length 435;
Best Local Similarity 34.7%; Pred. No. 0.00019;
Matches 43; Conservative 12; Mismatches 53; Indels 16; Gaps 6;

QY 18 SGMRVDRDDDFHGDGQIQLWPSKSNNDPNQLTIKRDNIRNSGSLTTY--GYTAGVY 75
Db 317 NGMCDVDPWADPTDGNPQIVTCSGN--AAQTWRGSDGTVRALGKCLDVRDGSSTRGAA 374

QY 129 GQGW 132
Db 127 AQOW 130

US-09-159-106-15
; Sequence 15, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrier, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
; US-09-159-106-15

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 QY 56 NTIRNG-SCLTGYTAGVYVIMFPCNTAVREATIWIQWNGTIINPRSNLVLA--SS 112
 Db 411 GELRVYGDKCLDAAGTSGSKVQIYSCWGDNQK--WRLNSDGSVVGVSGLCLDAVNG 468
 QY 113 GIKGTTLTVTQTLDTLGGW 132
 Db 469 TANGTLIQLYTCNSGNSQNRW 488

RESULT 10

US-08-590-563-8
 ; Sequence 8, Application US/08590563
 ; Patent No. 6300114
 ; GENERAL INFORMATION:
 ; APPLICANT: M ntyl, Arja
 ; APPLICANT: Vehmaanper, Jari
 ; APPLICANT: Fagerstr m, Richard
 ; APPLICANT: Lantto, Raija
 ; APPLICANT: Palohelmo, Marja
 ; APPLICANT: Suominen, Pirko
 ; APPLICANT: Lahtinen, Tarja
 ; TITLE OF INVENTION: Production and Secretion of Proteins of
 ; NUMBER OF SEQUENCES: 39
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 ; STREET: 1100 New York Ave., N.W. Suite 600
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20005

COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/590,563
 ; FILING DATE: 26-JAN-1996
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/468,812
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/332,412
 ; FILING DATE: 31-OCT-1994
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/282,001
 ; FILING DATE: 29-JUL-1994
 ; CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
 ; NAME: Bugalsky, Lawrence B.
 ; REGISTRATION NUMBER: 35,086
 ; REFERENCE/DOCKET NUMBER: 1050.0340003
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-371-2600
 ; TELEFAX: 202-371-2540
 ; INFORMATION FOR SEQ ID NO: 8:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 491 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: not relevant
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; POSITION IN GENOME:
 ; CHROMOSOME/SEGMENT: M64551

US-08-590-563-8
 Query Match 8.5%; Score 119.5; DB 4; Length 491;
 Best Local Similarity 29.8%; Pred. No. 0.00013;
 Matches 37; Conservative 18; Mismatches 61; Indels 8; Gaps 5;

Best Local Similarity 28.6%; Pred. No. 0.0008;
 Matches 40; Conservative 19; Mismatches 62; Indels 19; Gaps 6;
 QY 7 ASEP-----TVRIVGRSGMRVVDVDDDFHGNQIQLWPSKSNNDPNQLWTIKRD 55
 Db 354 SSEPXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQWCHSGT--NQWAAATDA 410
 QY 56 NTIRNG-SCLTGYTAGVYVIMFPCNTAVREATIWIQWNGTIINPRSNLVLA--SS 112
 Db 411 GELRVYGDKCLDAAGTSGSKVQIYSCWGDNQK--WRLNSDGSVVGVSGLCLDAVNG 468
 QY 113 GIKGTTLTVTQTLDTLGGW 132
 Db 469 TANGTLIQLYTCNSGNSQNRW 488

RESULT 11

US-08-392-828C-39
 ; Sequence 39, Application US/08392828C
 ; Patent No. 5795962
 ; GENERAL INFORMATION:
 ; APPLICANT: IWANAGA, SADAOKI
 ; APPLICANT: MUTA, TATSUSHI
 ; APPLICANT: SEKI, NORIYAKI
 ; APPLICANT: ODA, TOSHIO
 ; TITLE OF INVENTION: NOVEL POLYPEPTIDE AND DNA ENCODING
 ; NUMBER OF SEQUENCES: 39
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HURWITZ &
 ; STREET: 53 STATE STREET
 ; CITY: BOSTON
 ; STATE: MA
 ; COUNTRY: USA
 ; ZIP: 02109

COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/392,828C
 ; FILING DATE: 28-FEB-1995
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: CAMPELL, PAULA A
 ; REGISTRATION NUMBER: 32,503
 ; REFERENCE/DOCKET NUMBER: FUN-033
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (617) 248-7000
 ; TELEFAX: (617) 248-7100
 ; INFORMATION FOR SEQ ID NO: 39:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 127 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; FEATURE:
 ; NAME/KEY: Peptide
 ; LOCATION: 1..127
 ; OTHER INFORMATION: /note= "XLN A SEQUENCE (FIGURE 4)"

US-08-392-828C-39
 Query Match 8.4%; Score 119; DB 1; Length 127;
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 Matches 37; Conservative 18; Mismatches 61; Indels 8; Gaps 5;

US-08-392-828C-39
 Query Match 8.4%; Score 119; DB 1; Length 127;
 Best Local Similarity 29.8%; Pred. No. 0.00013;
 Matches 37; Conservative 18; Mismatches 61; Indels 8; Gaps 5;

QY 12 VRIVGRSGMRVVDVDDDFHGNQIQLWPSKSNNDPNQLWTIKRDNTIRNSG-SCLTGYG 70
 Db 6 IKGVG-SGRCLDVPDASTSDGTQLQWCHSGT--NQWAAATDAGELRVYGDKCLDAAGT 62

us-09-601-667c-8.ra1

Sat Mar 22 10:41:45 2003

QY 71 TAGVYVIMFDONTAVREATIWOIWDNGTIINPRSNVLAA--SSGKGTTLVOTLDYTL 128
Db 63 SNGSKVQIYSCWGDQK--WRLNSDGSVVGQGLCLDAVGNGTANGTLIQLYTCNSGS 120

QY 129 GQGW 132
Db 121 NORW 124

RESULT 12
US-09-330-945-39
; Sequence 39, Application US/09330945
; Patent No. 6077946
; GENERAL INFORMATION:
; APPLICANT: IWANAGA, SADAARI
; APPLICANT: MUTA, TATSUSHI
; APPLICANT: SEKI, NORIHI
; APPLICANT: ODA, TOSHIO
; TITLE OF INVENTION: DNA ENCODING HORSESHOE CRAB
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HURWITZ &
; ADDRESS: THIBEAULT LLP
; STREET: 125 HIGH STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02110

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/330,945
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 09/119,995
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMUND R.
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: FJN-032DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100

INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:

NAME/KEY: Peptide
LOCATION: 1..127
OTHER INFORMATION: /note="XLN A SEQUENCE (FIGURE 4)"
US-09-330-945-39

Query Match 8.4%; Score 119; DB 3; Length 127;
Best Local Similarity 29.8%; Pred. No. 0.00013;
Matches 37; Conservative 18; Mismatches 61; Indels 8; Gaps 5;

QY 12 VRIVGRSMRVDVDDDFHGNQIOLWPSKSNNDPNQIWKIRKDNTRNSG-SCLTTYGY 70
Db 6 IKGVG-SGRCLDVPDASTSDGTQLQIOLWPDCHSGT--NOOWAATDAGELRVVGDKLDAAGT 62
QY 71 TAGVYVIMFDONTAVREATIWOIWDNGTIINPRSNVLAA--SSGKGTTLVOTLDYTL 128
Db 63 SNGSKVQIYSCWGDQK--WRLNSDGSVVGQGLCLDAVGNGTANGTLIQLYTCNSGS 120

QY 129 GQGW 132
Db 121 NORW 124

RESULT 13
US-08-468-812-5
; Sequence 5, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari

; APPLICANT: M nyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,812
FILING DATE: 06-JUN-1995

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Larry B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: AM50

US-08-468-812-5
Query Match 8.2%; Score 116.5; DB 2; Length 480;
Best Local Similarity 31.4%; Pred. No. 0.0015;
Matches 33; Conservative 16; Mismatches 49; Indels 5; Gaps 3;

QY 22 VDVDDDFHGNQIOLWPSKSNNDPNQIWKIRKDNTRNSG-CLTTYGYTAGVYVIMFD 80
Db 379 IDVPNGNTADGTQIOLYDCHSGS--NQWYTSSEGFIRGNKCLDAGGSSNGAVVQIYS 436
QY 81 CNTAVREATIWOIWDNGTIINPRSNVLAA--SSGKGTTLVOTLDYTL 128

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Sat Mar 22 10:41:45 2003

GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 9.27635 Seconds
(without alignments)
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Title: US-09-601-667C-9

Perfect score: 1417

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Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:

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- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB pep.*
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- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1327.5	93.7	267	10	US-09-347-064-4
3	175.5	12.4	145	12	US-10-074-527-5
4	127	9.0	135	9	US-09-973-457-5
5	127	9.0	135	12	US-10-074-527-6
6	124.5	8.8	432	10	US-09-770-621-4
7	124.5	8.8	492	10	US-09-770-621-7
8	122.5	8.6	480	10	US-09-770-621-5
9	122.5	8.6	491	10	US-09-770-621-8
10	107	7.6	612	12	US-10-001-851-25
11	95	6.7	295	10	US-09-815-242-11833
12	94	6.6	1723	10	US-09-841-132-394
13	94	6.6	1723	10	US-09-841-132-395
14	92	6.5	2771	9	US-09-808-602-82
15	87.5	6.3	770	10	US-09-815-656-31
16	87.5	6.2	836	9	US-09-858-525A-10
17	87.5	6.2	871	9	US-09-858-525A-2
18	86.5	6.1	608	10	US-09-924-358-8
19	84.5	6.0	239	10	US-09-910-071-15

20	83	5.9	2353	10	US-09-797-862-33	Sequence 33, Appl
21	82.5	5.8	3571	9	US-10-150-821-2	Sequence 2, Appl
22	82.5	5.8	3571	10	US-09-911-842-2	Sequence 2, Appl
23	81	5.7	1781	9	US-09-995-749A-2	Sequence 2, Appl
24	80.5	5.7	559	12	US-10-001-851-23	Sequence 23, Appl
25	80	5.6	207	10	US-09-780-717-26	Sequence 26, Appl
26	80	5.6	356	9	US-09-976-059-8	Sequence 8, Appl
27	80	5.6	925	10	US-09-452-380-4	Sequence 4, Appl
28	80	5.6	936	10	US-09-452-380-3	Sequence 3, Appl
29	78.5	5.5	4545	10	US-09-873-403-2	Sequence 2, Appl
30	78	5.5	985	9	US-09-738-626-4377	Sequence 4377, Ap
31	78	5.5	1848	9	US-09-839-996-6	Sequence 6, Appl
32	77.5	5.5	448	9	US-10-265-593-2	Sequence 2, Appl
33	77.5	5.5	770	9	US-09-932-896-3	Sequence 9, Appl
34	77	5.4	1226	10	US-09-815-242-13646	Sequence 13646, A
35	77	5.4	1599	9	US-10-092-880-9	Sequence 9, Appl
36	76.5	5.4	306	9	US-10-125-692-30	Sequence 30, Appl
37	76.5	5.4	559	12	US-10-001-851-24	Sequence 24, Appl
38	76.5	5.4	579	12	US-10-001-851-29	Sequence 29, Appl
39	76.5	5.4	626	12	US-10-001-851-27	Sequence 27, Appl
40	76.5	5.4	1541	9	US-09-839-996-3	Sequence 3, Appl
41	75.5	5.3	185	9	US-09-791-279-162	Sequence 162, App
42	75.5	5.3	435	9	US-10-000-512-18	Sequence 18, Appl
43	75.5	5.3	492	10	US-09-801-368-192	Sequence 192, App
44	75	5.3	434	10	US-09-770-621-6	Sequence 6, Appl
45	75	5.3	466	10	US-09-741-669-303	Sequence 303, App

ALIGNMENTS

RESULT 1
US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347, 064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-10

Query Match 93.7%; Score 1327.5; DB 10; Length 263;
Best Local Similarity 95.1%; Pred. No. 2.3e-114;
Matches 250; Conservative 2; Mismatches 10; Indels 1; Gaps 1;

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Sat Mar 22 10:41:50 2003

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QY 241 NPKLRRIIYPATGKPNQMWLPV 263
Db 240 NPKLRRIIYPATGKPNQMWLPV 262

RESULT 2
US-09-347-064-4
; Sequence 4, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 267
; TYPE: PRT
; ORGANISM: Viscum album
US-09-347-064-4

Query Match 93.7%; Score 1327.5; DB 10; Length 267;
Best Local Similarity 95.1%; Pred. No. 2.3e-114;
Matches 250; Conservative 2; Mismatches 10; Indels 1; Gaps 1;

QY 1 DDVTCASPTVRIIVGRNGMRVDRDDFDHGNQIQLPWPSKSNNDPNQLTWKIKRDGTIRS 60
Db 1 DDVTCASPTVRIIVGRNGMCDVDRDDFDHGNQIQLPWPSKSNNDPNQLTWKIKRDGTIRS 60
QY 61 NGSLTYGTAGVYMI FDCNTAVRETIQIWDNGTIINPRSNLVLAASSGKGTTLT 120
Db 61 NGSLTYGTAGVYMI FDCNTAVRETIQIWDNGTIINPRSNLVLAASSGKGTTLT 120
QY 121 VQTLDTYLGQGLAGNDTAPREVTIYGRDLCLMESNGSGVWVETCDSSQKQKQWALYGD 180
Db 121 VQTLDTYLGQGLAGNDTAPREVTIYGRDLCLMESNGSGVWVETCDSSQKQKQWALYGD 179
QY 181 GSIRPKQNOQCLTSGRDSVSTVINIVSCGASGSGORWVFTNEGAILNLKTGLAMDVAQA 240
Db 180 GSIRPKQNOQCLTSGRDSVSTVINIVSCGSGGQRWVFTNEGAILNLKGLAMDVAQA 239
QY 241 NPKLRRIIYPATGKPNQMWLPV 263
Db 240 NPKLRRIIYPATGKPNQMWLPV 262

RESULT 3
US-10-074-527-5
; Sequence 5, Application US/10074527
; Patent No. US20020142426A1
; GENERAL INFORMATION:
; APPLICANT: Olandt, Peter J.
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Galvin, Katherine A.
; APPLICANT: Millennium Pharmaceuticals Inc.
; TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
; TITLE OF INVENTION: Uses therefor
; FILE REFERENCE: MPI2001-018PirCFI (M)
; CURRENT APPLICATION NUMBER: US/10/074,527
```

```
; CURRENT FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 60/269202
; PRIOR FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus
US-10-074-527-5

Query Match 12.4%; Score 175.5; DB 12; Length 145;
Best Local Similarity 35.8%; Pred. No. 6.2e-09;
Matches 43; Conservative 20; Mismatches 46; Indels 11; Gaps 5;

QY 154 ESNGSGVWVETCDSSQKQKQWAL---YDGSIRPKQNOQCLTSGRDSVSTVINIVSC- 209
Db 25 ESDGNQVQLWNCHSFCGKQKQWALTYDESDGEIRSVVNNDKCLTVNANSPGSEVKLYQCD 84
QY 210 SGASGSGORWVFTNEGAI-----LNL-KTGLAMDVAQANPKL-RRIIYPATGKPNQMWLP 262
Db 85 SATSDNQKWLNDGLIGNKILLNLVNTGLVLDVKGSDTONGTKLILYTCSGGRNQWLP 144

RESULT 4
US-09-973-457-5
; Sequence 5, Application US/09973457
; Patent No. US20020164746A1
; GENERAL INFORMATION:
; APPLICANT: Kapeller-Libermann, Rosana
; TITLE OF INVENTION: 47174, A NOVEL HUMAN GLYCOSYLTRANSFERASE
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: 10448-099001
; CURRENT APPLICATION NUMBER: US/09/973,457
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/238,849
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 135
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence
US-09-973-457-5

Query Match 9.0%; Score 127; DB 9; Length 135;
Best Local Similarity 25.7%; Pred. No. 0.00016;
Matches 44; Conservative 20; Mismatches 53; Indels 54; Gaps 9;

QY 14 IYVRNGMRVDV--RDDFDHGNQIQLPWPSKSNNDPNQLTW---KRDGTIRSNGS-CLTT 67
Db 7 ICGNTGLCLDVNGNSESKSDGNPQLWDCHGG--NQLWKLTYNESDGAIRNSDLCLTV 64
QY 68 YGYTAGVYVMI FDCNTAVR--EATIQIWDNGTIINPRSNLVLAASSGKGTTLTVQTL 125
Db 65 NG-----TVTLYSCDGTDKENDNQKWEVNDGTIRNPK-NSKKGVDSG----- 106
QY 126 YTLGQGLAGNDTAPREVTIYGRDLCLME-SNGSGVWVETCDSSQKQKQW 175
Db 107 -----LCLDVKDGKVKQLWTCNGSDAPNQKW 132

RESULT 5
US-10-074-527-6
; Sequence 6, Application US/10074527
; Patent No. US20020142426A1
; GENERAL INFORMATION:
; APPLICANT: Olandt, Peter J.
; APPLICANT: Meyers, Rachel E.
```

RESULT 6
US-09-770-621-4
Sequence 4, Application US/09770621
Patent No. US20010024815A1
GENERAL INFORMATION:
APPLICANT: M ntyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Egerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
TITLE OF INVENTION: Production and Secretion of Proteins of
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 New York Ave., N.W. Suite 600
City: Washington
STATE: D.C.
COUNTRY: U.S.A.
Zip: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,621
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/590,563
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994

RESULT 7
US-09-770-621-7
; Sequence 7, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

Sat Mar 22 10:41:50 2003

us-09-601-667c-9.rapb

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,621
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/590,563
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bugaisky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 492 amino acids
TYPE: amino acid
STRANDEDNESS: No. US20010024815A1 Relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: AM50
US-09-770-621-7

Query Match 8.8%; Score 124.5; DB 10; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.0015;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;
QY 23 DVRRDDFDHGNQTLQWPS---KSNNDPNQLWTIKRDGTIR---SNGSLTYGY-----70
DB 168 DVVNEAFEDGNSGRCDNLQRTGND---WIEVAFRTAQDPSAKLCYNDYNIENWNA 223
QY 71 --TAGVYVM-----FDCNTAVREATIWIQNDGTIINPRSNLVAASSGKGTTL 119
DB 224 AKTQAVNVMVDFKSRGVFIDC-----VGFQSHFNSGNPNPNRPTLQOFAAL-GVDV 276
QY 120 TVQTLDTLQGWLAGNDTAPRE-----VTIYGFDR-----LC 152
DB 277 EVTELDI-----ENAPAGTYASVIRDCIADVDRCTGITVWGVDRSDSWRSYQNPLL 326
QY 153 MEGN-----GGSVWV-----ET 164
DB 327 FDNNGNKQAYAVLDALNEGSDGGSPPVPPPPGGGQIRGVASNRCDIVPENGNT 386
QY 165 CDSGQ-----KNGKWLXGDSIRPKQNDQCLFSGRDSYSTVINIYVSCSGASGS 215
DB 387 ADGTQVQLYCHGSGNQ-QWYTTSSGFEFRIFGN--KCLDAGSSNGAVVQIYSCWGGG-N 442
QY 216 QRWFTNEGAILNKTGLAMD-VAQANPKLRRIIYYPATGKNQMW 260
DB 443 QKWELRADGTIVGVQSGLCILDVAGGGTGNGTRQLQLYSCWGGNNQKW 488

RESULT 8
US-09-770-621-5
Sequence 5, Application US/09770621
Patent No. US20010024815A1
GENERAL INFORMATION:
APPLICANT: M nyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Fagerstr m, Richard

APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
TITLE OF INVENTION: Production and Secretion of Proteins of
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESS: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 New York Ave., N.W. Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,621
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/590,563
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bugaisky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 amino acids
TYPE: amino acid
STRANDEDNESS: No. US20010024815A1 Relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: AM50
US-09-770-621-5
Query Match 8.6%; Score 122.5; DB 10; Length 480;
Best Local Similarity 32.4%; Pred. No. 0.0022;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;
QY 22 DVRRDDFDHGNQIQLWFSKSNNDPNQLWTIKRDGTIRSNGS-CLTTYGYTAGVYVMIFD 80
DB 379 IDVPNGNTADGTQVQLYCHSGS--NQWYTTSSGFEFRIFGNKCLDAGSSNGAVVQIYS 436
QY 81 CNTAVREATIWIQNDGTIINPRSNLVAASSGKGTTLTVQ 122
DB 437 CWGGANQK--WELRADGTIVGVQSGLCILDVAGGGTGNGTRQLQ 476

RESULT 9
US-09-770-621-8
Sequence 8, Application US/09770621
Patent No. US20010024815A1
GENERAL INFORMATION:
APPLICANT: M nyl, Arja
APPLICANT: Vehmaanper, Jari
APPLICANT: Fagerstr m, Richard

us-09-601-667c-9.rapb

Sat Mar 22 10:41:50 2003

US-09-815-242-11833

```

Query Match      6.7%; Score 95; DB 10; Length 295;
Best Local Similarity 19.6%; Pred. No. 0.39;
Matches 45; Conservative 36; Mismatches 91; Indels 58; Gaps 7;

Qy 2 DVTCSASEPTVIRVGRNGRVDVDDDFHNGIQIOWPSKSNPNQWTKIKRDTIRSN 61
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 37 DVNAAALEETRQLASSGVSTAVVDVADREQVQAWADKAASEHGRVNLIFNNAGVAHA 96
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 62 GSCLTITGYAGVYVIMFDCNTAVREATIWIWD-----NGTIINPRSNLVL 108
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 97 G---TVEGSDYSEYEWIMNIN-----FMGVNGTKAFPLPKASNGHVVNVSVFGL 146
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 109 AASSGKGTTLTVQTLDTLQCGWLAGNDTAPREVTIYGF-----RDLCWENG----- 157
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 147 PAQFGMSAYNAT-----KYAVRGFTESLRQELWEDSGVSASCV 185

Qy 158 --GSVWVETCDSSQKQKQWALYDGSIRPK-QNODCLTSGRDSVSTVI 204
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 186 HPGGIKTNIKTARMNESMAKVTCQAPDKAREQFNDQLLETTPEKAAQVI 235

```

RESULT 12

US-09-841-132-394
; Sequence 394, Application US/09841132
; Patent No. US20020061848A1

GENERAL INFORMATION:

```

; APPLICANT: Bhatia, Ajay
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Probst, Peter
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C8
; CURRENT APPLICATION NUMBER: US/09/841.132
; CURRENT FILING DATE: 2001-04-23
; NUMBER OF SEQ ID NOS: 599
; SOFTWARE: FastSeq for Windows Version 3.0/4.0
; SEQ ID NO 394
; LENGTH: 1723
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae

```

US-09-841-132-394

```

Query Match      6.6%; Score 94; DB 10; Length 1723;
Best Local Similarity 22.5%; Pred. No. 4.7;
Matches 60; Conservative 30; Mismatches 81; Indels 96; Gaps 10;

```

```

Qy 59 RNSGSCLTITVGYT--AGVYVIMFDCNTA-----VREATIWIWDN-----G 97
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 231 KSGGAAYTEGALTQAIWEAVTFGTNTSAGQGAIYVKEATLFNALDSLKFKEKNTSGQAG 290
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 98 TIINPRSNLVL-----AASSGKGTTLTVQTL----- 124
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 291 GGIYTESTLTITSNITKSFISNKASVPAPAPEPTSPAPSSLSINTTDTSTLOTAAASA 350
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 125 -----DYTLGGWLAGNDTAPREVTIYGFRLDLCWESNGSVWVE--TCD 166
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 351 TPAVAPVAAVTPTPISTQETAGNG---GAIYAKQGISISTFKDLTFKNSASVDATLTVD 407
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 167 SSQKQKQWALYDGSIRPKQNDQCLTSGRD-----SVSTVINIV-----S 208
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 408 SSTIGESGGAIFPADSFIQIQCTGTTLFSGNTANKSGGGIYAVGVQVTLIEDIANLKWNTNT 467
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 209 CSGASG---SORVFTNEGAILNLKTCG 232
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 468 CKGEGGAIYTKKALTINNGAILTTFSG 494

```

RESULT 13

US-09-841-132-395
; Sequence 395, Application US/09841132
; Patent No. US20020061848A1

GENERAL INFORMATION:

```

; APPLICANT: Bhatia, Ajay
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Probst, Peter
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C8
; CURRENT APPLICATION NUMBER: US/09/841.132
; CURRENT FILING DATE: 2001-04-23
; NUMBER OF SEQ ID NOS: 599
; SOFTWARE: FastSeq for Windows Version 3.0/4.0
; SEQ ID NO 395
; LENGTH: 1723
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae

```

US-09-841-132-395

```

Query Match      6.6%; Score 94; DB 10; Length 1723;
Best Local Similarity 22.5%; Pred. No. 4.7;
Matches 60; Conservative 30; Mismatches 81; Indels 96; Gaps 10;

```

```

Qy 59 RNSGSCLTITVGYT--AGVYVIMFDCNTA-----VREATIWIWDN-----G 97
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 231 KSGGAAYTEGALTQAIWEAVTFGTNTSAGQGAIYVKEATLFNALDSLKFKEKNTSGQAG 290
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 98 TIINPRSNLVL-----AASSGKGTTLTVQTL----- 124
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 291 GGIYTESTLTITSNITKSFISNKASVPAPAPEPTSPAPSSLSINTTDTSTLOTAAASA 350
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 125 -----DYTLGGWLAGNDTAPREVTIYGFRLDLCWESNGSVWVE--TCD 166
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 351 TPAVAPVAAVTPTPISTQETAGNG---GAIYAKQGISISTFKDLTFKNSASVDATLTVD 407
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 167 SSQKQKQWALYDGSIRPKQNDQCLTSGRD-----SVSTVINIV-----S 208
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 408 SSTIGESGGAIFPADSFIQIQCTGTTLFSGNTANKSGGGIYAVGVQVTLIEDIANLKWNTNT 467
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 209 CSGASG---SORVFTNEGAILNLKTCG 232
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 468 CKGEGGAIYTKKALTINNGAILTTFSG 494

```

RESULT 14

US-09-808-602-82
; Sequence 82, Application US/09808602
; Patent No. US20020155115A1

GENERAL INFORMATION:

```

; APPLICANT: Vernet, Corine A
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard A
; APPLICANT: Heriman, John L
; APPLICANT: Majumder, Kumud
; APPLICANT: Mishra, Vishnu
; APPLICANT: Mezes, Peter S
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: No. US20020155115A1e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-697 CIP
; CURRENT APPLICATION NUMBER: US/09/808.602
; CURRENT FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/800.198
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186.596
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 82
; LENGTH: 2771
; TYPE: PRT
; ORGANISM: Mus musculus

```

US-09-808-602-82

```

Query Match      6.5%; Score 92; DB 9; Length 2771;
Best Local Similarity 23.8%; Pred. No. 13;

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Search completed: March 22, 2003, 10:37:31
Job time : 13.2764 secs

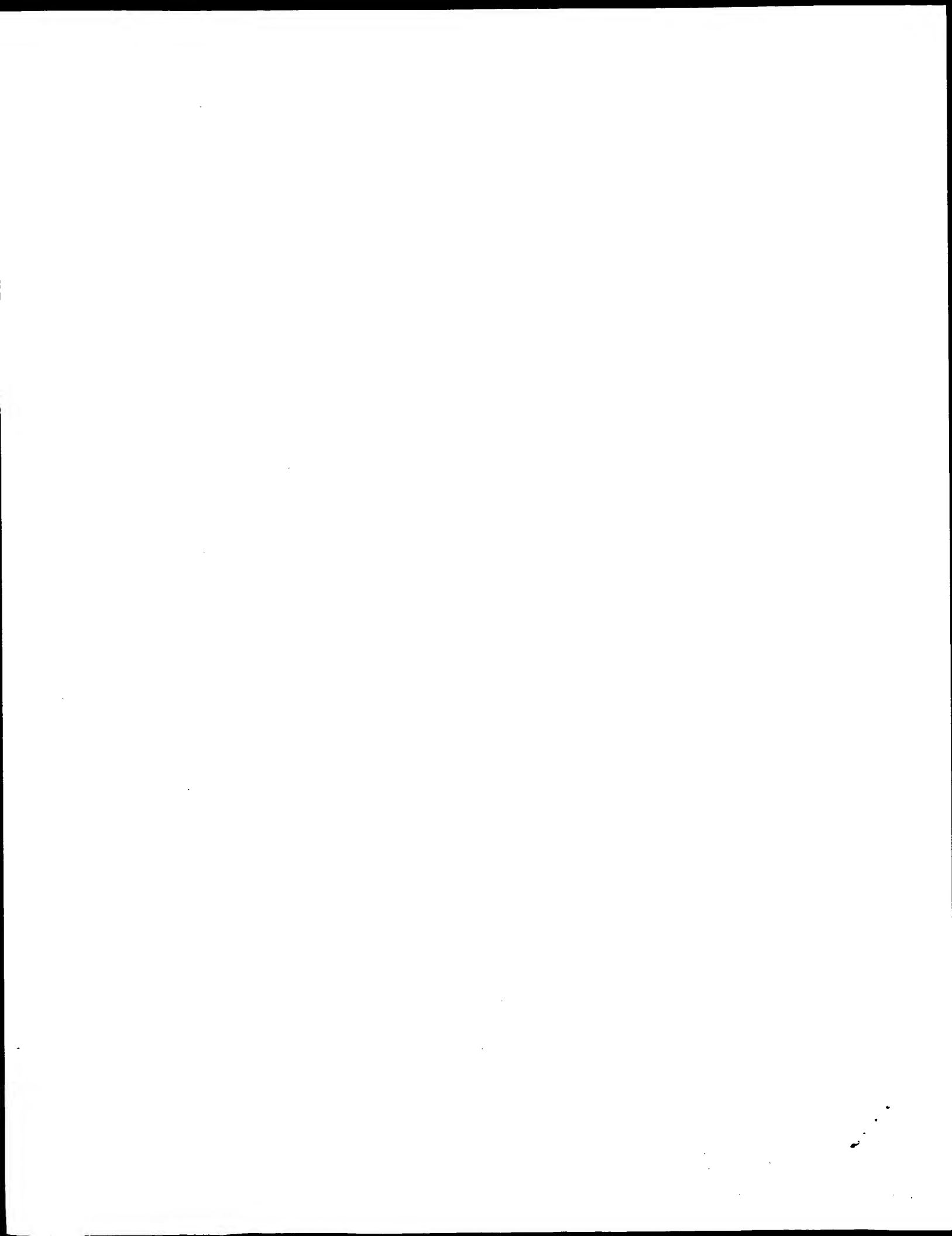
Match#	58; Conservative	27; Mismatches	89; Indels	70; Gaps	13;
Qy 60	SNGSCLTYYGYPAGVYVIMFDCNTAVREATIQIWD-NGTIINPRSNLVLAASSGIKGT	118			
Db 1593	TSGKHLVTSQSLPTGSDLYNF---TVTGDDITHIDNNGNMVRDST-----GMP	1641			
Qy 119	LTQVQLDYLTLQ-GWLA-GNDTAPREVITYGFRDLCMESNGSVVWEVCDSQKQGWKA	176			
Db 1642	LWLVPD---GQVYVWTGTSALRSVITQGHELAMTYVHGSGLLAT----KSNENGWT	1694			
Qy 177	LYGD-----GSRPKQND---QCLTSGRDSVSTVINVSCS-----	210			
Db 1695	TFEYDSEFGRLLTNVTFPTQGVSSPRSDTSSVHVQVETSSKDDVTITNLSAGAFYLL	1754			
Qy 211	-----GASGSQRVFTNEGAILNLKTGLANDVA-QANPKLRRIRIIVPATQKPNQM	259			
Db 1755	QDQVNSYIYGADGSLRLLAN-----GMEVALQTEPHLLAGTVNPTVGKRN-V	1802			
Qy 260	WLPV	263			
Db 1803	TLPI	1806			

```

RESULT 15
US-09-815-656-31
; Sequence 31, Application US/09815656
; Patent No. US20010041331A1
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Leary, Thomas
; APPLICANT: Erker, James
; APPLICANT: Chalmers, Michelle
; APPLICANT: Simons, John
; APPLICANT: Birkenmeyer, Larry
; APPLICANT: Muerhoff, Scott
; APPLICANT: Pilot-Matias, Tami
; APPLICANT: Desai, Suresh
; APPLICANT: Mushanwar, Isa
; TITLE OF INVENTION: METHODS OF UTILIZING THE TT VIRUS
; FILE REFERENCE: 6461.US.O1
; CURRENT APPLICATION NUMBER: US/09/815,656
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 09/245,248
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 71
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 770
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-815-656-31

```

Query Match	6.3%;	Score 89;	DB 10;	Length 770;	
Best Local Similarity	22.2%;	Pred. No. 4.8;			
Matches	41;	Conservative 18;	Mismatches 82;	Indels 44;	Gaps 7;
QY	61	NGSCLTTYG-----YTAGVYVMIFDCNTAVREATIQTWQDNGTIINPR-----	103		
Db	321	SGYTTIWGSLNNTKFTTTTTTYPGGTNTTIVTITANDSWYRGTVNQNIKDVAKK	380		
QY	104	-SNLVLAAASSGIGKTTLTVOTLDYTLQOG-----WLAGNDT---APREVITYIGFRDLC	152		
Db	381	AAELYSKATKAVLGNFT--TEDYTLGYHGGLYSSIWLSPGRSVYFPGAVTDIKYNPFT	438		
QY	153	MESNGSGSVWVETCDSSQKNQKVALYGDGSIIRPKQNOQCLTSGRDSVSTVINIVS--CSG	211		
Db	439	DRGEGNLWTDWLWSKNNNYDK-----VQSKCLISLDPLWAAAYGYVEFCAK	485		
QY	212	ASGSQ	216		
Db	486	STGQD	490		



GenCore version 5.1.4_p5.4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 8.14815 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-9
Perfect score: 1417
Sequence: 1 DDVTCASAEPTVIRVGRNGM.....RRIIYPATGKNQWMLPVF 264

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1327.5	93.7	263	4	US-08-776-059-43
2	1327.5	93.7	264	4	US-08-776-059-33
3	1327.5	93.7	564	4	US-08-776-059-35
4	777.5	54.9	540	1	US-08-378-761A-77
5	777.5	54.9	540	1	US-08-485-286-77
6	185	13.1	293	4	US-09-512-342-14
7	136	9.6	132	4	US-09-159-106-15
8	136	9.6	435	4	US-09-159-106-11
9	124.5	8.8	492	2	US-08-468-812-4
10	124.5	8.8	492	2	US-08-468-812-7
11	124.5	8.8	492	4	US-08-590-563-4
12	124.5	8.8	492	4	US-08-590-563-7
13	122.5	8.6	480	2	US-08-468-812-5
14	122.5	8.6	480	4	US-08-590-563-5
15	122.5	8.6	491	2	US-08-468-812-8
16	122.5	8.6	491	4	US-08-590-563-8
17	122	8.6	127	1	US-08-392-828C-39
18	122	8.6	127	3	US-09-330-945-39
19	106	7.5	507	4	US-09-130-337A-25
20	89	6.3	770	4	US-09-245-248B-31
21	87.5	6.2	553	1	US-08-565-386-6
22	86.5	6.1	420	2	US-08-282-197C-63
23	86.5	6.1	420	2	US-08-282-197C-66
24	86	6.1	1687	3	US-08-570-311-29
25	86	6.1	1704	3	US-08-336-308A-10
26	86	6.1	1704	3	US-08-822-324-6
27	86	6.1	1704	4	US-09-490-931-10
28					Sequence 43, Appl
29					Sequence 33, Appl
30					Sequence 35, Appl
31					Sequence 77, Appl
32					Sequence 14, Appl
33					Sequence 15, Appl
34					Sequence 11, Appl
35					Sequence 4, Appl
36					Sequence 7, Appl
37					Sequence 5, Appl
38					Sequence 8, Appl
39					Sequence 39, Appl
40					Sequence 25, Appl
41					Sequence 31, Appl
42					Sequence 6, Appl
43					Sequence 63, Appl
44					Sequence 66, Appl
45					Sequence 29, Appl
46					Sequence 10, Appl
47					Sequence 6, Appl
48					Sequence 10, Appl

28	84	5.9	1087	2	US-08-570-311-8	Sequence 8, Appl
29	84	5.9	1087	2	US-08-353-485-8	Sequence 27, Appl
30	84	5.9	1358	2	US-08-570-311-27	Sequence 4, Appl
31	83	5.9	1912	1	US-08-409-995-4	Sequence 4, Appl
32	83	5.9	1912	3	US-08-685-467-4	Sequence 33, Appl
33	83	5.9	2353	4	US-09-377-155-33	Sequence 4, Appl
34	83	5.9	2353	4	US-08-913-942-4	Sequence 3, Appl
35	83	5.9	2353	4	US-09-669-974-33	Sequence 33, Appl
36	83	5.9	2354	4	US-09-268-347-47	Sequence 47, Appl
37	83	5.9	2411	4	US-09-268-347-36	Sequence 36, Appl
38	82.5	5.8	1732	2	US-08-570-311-10	Sequence 10, Appl
39	82.5	5.8	1732	2	US-08-353-485-10	Sequence 10, Appl
40	82	5.8	500	6	5171684-2	Patent No. 5171684
41	81.5	5.8	342	4	US-09-129-033-2	Sequence 2, Appl
42	81.5	5.8	704	3	US-08-792-832A-2	Sequence 2, Appl
43	80.5	5.7	517	2	US-08-967-508-19	Sequence 19, Appl
44	80.5	5.7	517	3	US-08-967-506-19	Sequence 19, Appl
45	80.5	5.7	517	5	PCT-US94-02552-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1

US-08-776-059-43
; Sequence 43, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776, 059B
; EARLIER FILING DATE: 1999-06-15
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-43

Query Match 93.7%; Score 1327.5; DB 4; Length 263;
Best Local Similarity 95.1%; Pred. No. 8.9e-130;
Matches 250; Conservative 2; Mismatches 10; Indels 1; Gaps 1;

Qy	1	DDVTCASAEPTVIRVGRNGMRVDRDDPHDGNQIQIOLWPSKSNNDPNQLWTIKRQGTIRS	60
Db	1	DDVTCASAEPTVIRVGRNGMCDVDRDDPHDGNQIQIOLWPSKSNNDPNQLWTIKRQGTIRS	60
Qy	61	NGSCLITYGTAGYVYIMFDCNTAVREATIWIQIWDNGTTIINPRSNLVLAASSGIGKTTIT	120
Db	61	NGSCLITYGTAGYVYIMFDCNTAVREATLWQIWDNGTTIINPRSNLVLAASSGIGKTTIT	120
Qy	121	VQTLDYTLGGWLAGNDTAPREVTIYGFRLCWESNGSVWVETCDSSQKQCKWALYGD	180
Db	121	VQTLDYTLGGWLAGNDTAPREVTIYGFRLCWESNGSVWVETCVSSQKQK-RWALYGD	179
Qy	181	GSTRPKQNDQCLTSGRDSVSTVINIVSCSAGSGQRWVFTNEGAILNLKTKLAMDVAQA	240
Db	180	GSTRPKQNDQCLTSGRDSVSTVINIVSCSAGSGQRWVFTNEGAILNLKTKLAMDVAQA	239
Qy	241	NPKLRRIIYPATGKNQWMLPV	263
Db	240	NPKLRRIIYPATGKNQWMLPV	262

US-08-776-059-35

RESULT 2
US-08-776-059-33
; Sequence 33, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 33
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-33

Query Match 93.7%; Score 1327.5; DB 4; Length 264;
Best Local Similarity 95.1%; Pred. No. 9e-130;
Matches 250; Conservative 2; Mismatches 10; Indels 1; Gaps 1;
QY 1 DDVTCASEPTVRIIVGRNGMVDVDRDDFDHGNQIQWLWPSKSNNDPNQWLTIKRDGTIRS 60
DB 2 DDVTCASEPTVRIIVGRNGMVDVDRDDFDHGNQIQWLWPSKSNNDPNQWLTIKRDGTIRS 61
QY 61 NGSLTTYGTAGVYVMIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIGKGTTLT 120
DB 62 NGSLTTYGTAGVYVMIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIGKGTTLT 121
QY 121 VQTLDTLGGWLAGNDTAPREVITYIGFRDLCLMESNGSGVWVETCDSSQKNOGWALYGD 180
DB 122 VQTLDTLGGWLAGNDTAPREVITYIGFRDLCLMESNGSGVWVETCDSSQKNOGWALYGD 180
QY 181 GSIRPKQNDQCLTSGRDSVSVINIVSCGASGSGQRWVFTNEGAILNLKTGLAMDVAQA 240
DB 181 GSIRPKQNDQCLTSGRDSVSVINIVSCGASGSGQRWVFTNEGAILNLKTGLAMDVAQA 240
QY 241 NPKLRRIIYPATGKPNQWMLPV 263
DB 241 NPKLRRIIYPATGKPNQWMLPV 263

RESULT 3
US-08-776-059-35
; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Viscum album

Query Match 93.7%; Score 1327.5; DB 4; Length 564;
Best Local Similarity 95.1%; Pred. No. 2.7e-129;
Matches 250; Conservative 2; Mismatches 10; Indels 1; Gaps 1;
QY 1 DDVTCASEPTVRIIVGRNGMVDVDRDDFDHGNQIQWLWPSKSNNDPNQWLTIKRDGTIRS 60
DB 302 DDVTCASEPTVRIIVGRNGMVDVDRDDFDHGNQIQWLWPSKSNNDPNQWLTIKRDGTIRS 361
QY 61 NGSLTTYGTAGVYVMIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIGKGTTLT 120
DB 362 NGSLTTYGTAGVYVMIFDCNTAVREATIWIQWNGTIIINPRSNLVLAASSGIGKGTTLT 421
QY 121 VQTLDTLGGWLAGNDTAPREVITYIGFRDLCLMESNGSGVWVETCDSSQKNOGWALYGD 180
DB 422 VQTLDTLGGWLAGNDTAPREVITYIGFRDLCLMESNGSGVWVETCDSSQKNOGWALYGD 480
QY 181 GSIRPKQNDQCLTSGRDSVSVINIVSCGASGSGQRWVFTNEGAILNLKTGLAMDVAQA 240
DB 481 GSIRPKQNDQCLTSGRDSVSVINIVSCGASGSGQRWVFTNEGAILNLKTGLAMDVAQA 540
QY 241 NPKLRRIIYPATGKPNQWMLPV 263
DB 541 NPKLRRIIYPATGKPNQWMLPV 563

RESULT 4

US-08-378-761A-77
; Sequence 77, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9130 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-77

Query Match 54.9%; Score 777.5; DB 1; Length 540;
Best Local Similarity 55.8%; Pred. No. 2.9e-72;
Matches 145; Conservative 41; Mismatches 73; Indels 1; Gaps 1;

QY 5 CSASEPTVRIIVGRNGMRVDRDDFDHGNQIQIOLWPSKSNNDPNQIWTIKRDGTIRNSGSC 64
 Db 282 CMDPEPIVRIIVGRNGLCVDVTGEFFDGNPIQLWPKCSNTDNQIWLTKRSTIRNSGKC 341
 QY 65 LTTYGYTAGVYVIMFDCNTAVREATIWIQIWDNGTIINPRSNLVLAASSGIGKTTLTVTQTL 124
 Db 342 LTISKSPPRQOVVINYCSTATVGNTRWQIWDNRTIINPRGLVLAATSGNSGKLTIVQTN 401
 QY 125 DYTGGQWLAGNDTAPREVTIYGFRLCMESNGSVVWVETCDSSQKNQKQWALYDGSIR 184
 Db 402 IYAVSOGMLPTNTPQFVTTIYGLYCMCIQANSKGVWLEDC-TSEKAEQQWALYADGSIR 460
 QY 185 PKONQDCLTSGRDSVSTVINIVSCSGASQSRWVFTNEGAILNLKTLGAMDVAQANPKL 244
 Db 461 PQNRDNCCLTTDANIKGTIVVKILSCGPASSGQRMFKNDGTILNLYNGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKPNQMWLPVF 264
 Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 5

US-08-485-286-77
 ; Sequence 77, Application US/08485286
 ; Patent No. 5646026
 ; Patent No. 5646026 5646119
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSH, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; TITLE OF INVENTION: USING
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/485,286
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/378761
 ; FILING DATE: 26-JAN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 77:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 540 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-485-286-77

Query Match 54.9%; Score 777.5; DB 1; Length 540;
 Best Local Similarity 55.8%; Pred. No. 2.9e-72;
 Matches 145; Conservative 41; Mismatches 73; Indels 1; Gaps 1;

QY 5 CSASEPTVRIIVGRNGMRVDRDDFDHGNQIQIOLWPSKSNNDPNQIWTIKRDGTIRNSGSC 64
 Db 282 CMDPEPIVRIIVGRNGLCVDVTGEFFDGNPIQLWPKCSNTDNQIWLTKRSTIRNSGKC 341
 QY 65 LTTYGYTAGVYVIMFDCNTAVREATIWIQIWDNGTIINPRSNLVLAASSGIGKTTLTVTQTL 124
 Db 342 LTISKSPPRQOVVINYCSTATVGNTRWQIWDNRTIINPRGLVLAATSGNSGKLTIVQTN 401
 QY 125 DYTGGQWLAGNDTAPREVTIYGFRLCMESNGSVVWVETCDSSQKNQKQWALYDGSIR 184
 Db 402 IYAVSOGMLPTNTPQFVTTIYGLYCMCIQANSKGVWLEDC-TSEKAEQQWALYADGSIR 460
 QY 185 PKONQDCLTSGRDSVSTVINIVSCSGASQSRWVFTNEGAILNLKTLGAMDVAQANPKL 244
 Db 461 PQNRDNCCLTTDANIKGTIVVKILSCGPASSGQRMFKNDGTILNLYNGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKPNQMWLPVF 264
 Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 6

US-09-512-342-14
 ; Sequence 14, Application US/09512342
 ; Patent No. 6388068
 ; GENERAL INFORMATION:
 ; APPLICANT: SATOH, SHINOBU
 ; APPLICANT: MASUDA, SUSUMU
 ; TITLE OF INVENTION: METHOD FOR PRODUCING FOREIGN POLYPEPTIDE IN PLANT
 ; TITLE OF INVENTION: INTERCELLULAR FLUID
 ; FILE REFERENCE: 081356/0142
 ; CURRENT APPLICATION NUMBER: US/09/512,342
 ; CURRENT FILING DATE: 2000-02-24
 ; NUMBER OF SEQ ID NOS: 38
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 293
 ; TYPE: PRT
 ; ORGANISM: Cucumis sativus
 ; US-09-512-342-14

Query Match 13.1%; Score 185; DB 4; Length 293;
 Best Local Similarity 27.5%; Pred. No. 3.6e-11;

Matches 67; Conservative 36; Mismatches 101; Indels 40; Gaps 11;

QY 14 IYGRNGMRVDRDDFDHGNQIQIOLW-----PSK-----SNDPNQIWTIKRDGTIR-- 59
 Db 41 LVGRDGLCLEMSP-----WYKPAINFPTRLSPCDEKKQTQLTWIVDGTIRM 89
 QY 60 SNGSCLTT---YGYTAGVYVIMFDCNTAVREATIWIQIWDNGTIINPRSNLVLAASSGIGK 116
 Db 90 NDKFCLAAAEVFGVIN--KAVVSECGKVSDDPNKWTQKNDGTIALVDSRVLGTGLDY-- 145
 QY 117 TLTVTQTLDTLGGWLAGNDTAPREVTIYGFRLCMESNGGS--VWVETCDSSQKNQK 174
 Db 146 --VTLOSQNKYTPSQSWEVTESLNVMVANIENLNLCLQSTDSSHVGLNGCNTDNKYQ-R 202
 QY 175 WALYDGSIRPKONQDCLTSGRDSVSTVINIVSCSGASQSRW-VFTNEGAILNLKTLG 233
 Db 203 WALYADGTIRQHVKNKYCLTSDQDFGRFV--VVSCKEDPKQQRWSLDAKDYTIIDHPNTDM 260
 QY 234 AMDV 237
 Db 261 VLDV 264

RESULT 7

US-09-159-106-15
 ; Sequence 15, Application US/09159106
 ; Patent No. 6284509
 ; GENERAL INFORMATION:
 ; APPLICANT: Ferrer, Pau
 ; APPLICANT: Diers, Ivan

APPLICANT: Halkier, Torben
APPLICANT: Hedegaard, Lisbeth
TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
TITLE OF INVENTION: Activity
FILE REFERENCE: 4693.204-US
CURRENT APPLICATION NUMBER: US/09/159,106
CURRENT FILING DATE: 1998-09-23
EARLIER APPLICATION NUMBER: 0427/96
EARLIER FILING DATE: 1996-12-04
EARLIER APPLICATION NUMBER: 0885/96
EARLIER FILING DATE: 1996-08-23
EARLIER APPLICATION NUMBER: PCT/DK97/00160
EARLIER FILING DATE: 1997-04-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 15
LENGTH: 132
TYPE: PRT
ORGANISM: Oerskovia xanthineolytica
US-09-159-106-15

Query Match 9.6%; Score 136; DB 4; Length 132;
Best Local Similarity 36.3%; Pred. No. 1.3e-06;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;
QY 18 NGMRVDVDDDFHGNQIQWLWPSKSNNDPNQLWTIKRDGTIRNSGSLTTY--GYTAGVY 75
DB 14 NGMCDVVPWADPTDGNPVQIVTCGN--AAQTWTRGSDGTVRALGKCLDVRDGSITRGAA 71
QY 76 VMIFDCNTAVREATIWIW--DNGT--IINPRNLVLAASSGI---KGTTLTVQTLDTYL 128
DB 72 VQVWTCN-----GTGAQKWAYDAGSKALRNPSQGLCLDATTGGAPLRDQGORLQWTWTCNGTT 126
QY 129 GQGW 132
DB 127 AQQW 130

RESULT 8
US-09-159-106-11
Sequence 11, Application US/09159106
Patent No. 6284509
GENERAL INFORMATION:
APPLICANT: Ferrer, Pau
APPLICANT: Diers, Ivan
APPLICANT: Halkier, Torben
APPLICANT: Hedegaard, Lisbeth
TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
TITLE OF INVENTION: Activity
FILE REFERENCE: 4693.204-US
CURRENT APPLICATION NUMBER: US/09/159,106
CURRENT FILING DATE: 1998-09-23
EARLIER APPLICATION NUMBER: 0427/96
EARLIER FILING DATE: 1996-12-04
EARLIER APPLICATION NUMBER: 0885/96
EARLIER FILING DATE: 1996-08-23
EARLIER APPLICATION NUMBER: PCT/DK97/00160
EARLIER FILING DATE: 1997-04-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 11
LENGTH: 435
TYPE: PRT
ORGANISM: Oerskovia xanthineolytica
US-09-159-106-11

Query Match 9.6%; Score 136; DB 4; Length 435;
Best Local Similarity 36.3%; Pred. No. 7.7e-06;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;
QY 18 NGMRVDVDDDFHGNQIQWLWPSKSNNDPNQLWTIKRDGTIRNSGSLTTY--GYTAGVY 75
DB 317 NGMCDVVPWADPTDGNPVQIVTCGN--AAQTWTRGSDGTVRALGKCLDVRDGSITRGAA 374

QY 76 VMIFDCNTAVREATIWIW--DNGT--IINPRNLVLAASSGI---KGTTLTVQTLDTYL 128
DB 375 VQVWTCN-----GTGAQKWAYDAGSKALRNPSQGLCLDATTGGAPLRDQGORLQWTWTCNGTT 429
QY 129 GQGW 132
DB 430 AQQW 433

RESULT 9
US-08-468-812-4
Sequence 4, Application US/08468812
Patent No. 5935836
GENERAL INFORMATION:
APPLICANT: Vehmaanper, Jari
APPLICANT: M ntyl, Arja
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
APPLICANT: Kristo, Paula
TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
TITLE OF INVENTION: Of Use
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,812
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Bugalsky, Larry B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.03400002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 492 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-468-812-4

Query Match 8.8%; Score 124.5; DB 2; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.00014;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;
QY 23 DVRRDDDFHGNQIQWLWPS---KSNNDPNQLWTIKRDGTIR-----SNGSCLTTYGY----- 70
DB 168 DVVNEAFEDGNSGRCDNSLQRTGND---WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223

QY 71 --TAGVYVMI-----FDCNTAVREATIWIQIWDNGTIINPRSNLVLAASSGIKGTTL 119
Db 224 AKTQAVYVMDPKSRGVPIDC-----VGFQSHFNSGNPNPNFRITLQOFAAL-GVDV 276
QY 120 TVQTLDTLGGWLAGNDTAPRE-----VTIYGFDR-----LC 152
Db 277 EVTELDI-----ENAPAQTYASVIRDCLAVDRCTGITVWGVDRSDSWRSYQNPL 326
QY 153 MESN-----GGSVWV-----ET 164
Db 327 FDNNGKKQAYYAVLDALNEGSDGGGSPNPVPPGGGGQIRGVASNRICIDVPNGNT 386
QY 165 CDSQ-----KNOGWALYDGSIRPKQNDCLTSGRDSVSTVINIVSCSGASGS 215
Db 387 ADGTQVLYDCHSGSNQ-QWYTTSSGEFRIFGN--KCLDAGGSSNGAVVQIYSCWGA-N 442
QY 216 QRVVFTNEGAILNKTGLAMD-VAQANPKLRIIYPATGKPNQM 260
Db 443 QKWELRADGTIVGVQSGCLDCLDAVGGGTGNGTRLQLYSCWGGNNQKW 488

RESULT 10

US-08-468-812-7
; Sequence 7, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant

; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
US-08-468-812-7
Query Match 8.8%; Score 124.5; DB 2; Length 492;
Best Local Similarity 20.8%; Pred. No. 0.00014;
Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;

QY 23 DVRRDDFDHGNQIQIOWPS-----KSNNDPNQLWTIKRDGTIR-----SNGSCLTYYG----- 70
Db 168 DVNAEAFEDGSGRRCDNSLQRTGND-----WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223
QY 71 --TAGVYVMI-----FDCNTAVREATIWIQIWDNGTIINPRSNLVLAASSGIKGTTL 119
Db 224 AKTQAVYVMDPKSRGVPIDC-----VGFQSHFNSGNPNPNFRITLQOFAAL-GVDV 276
QY 120 TVQTLDTLGGWLAGNDTAPRE-----VTIYGFDR-----LC 152
Db 277 EVTELDI-----ENAPAQTYASVIRDCLAVDRCTGITVWGVDRSDSWRSYQNPL 326
QY 153 MESN-----GGSVWV-----ET 164
Db 327 FDNNGKKQAYYAVLDALNEGSDGGGSPNPVPPGGGGQIRGVASNRICIDVPNGNT 386
QY 165 CDSQ-----KNOGWALYDGSIRPKQNDCLTSGRDSVSTVINIVSCSGASGS 215
Db 387 ADGTQVLYDCHSGSNQ-QWYTTSSGEFRIFGN--KCLDAGGSSNGAVVQIYSCWGA-N 442
QY 216 QRVVFTNEGAILNKTGLAMD-VAQANPKLRIIYPATGKPNQM 260
Db 443 QKWELRADGTIVGVQSGCLDCLDAVGGGTGNGTRLQLYSCWGGNNQKW 488

RESULT 11

US-08-590-563-4
; Sequence 4, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmaanper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536

; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/282,001
 ; FILING DATE: 29-JUL-1994
 ; CLASSIFICATION: 536
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bugalsky, Lawrence B.
 ; REGISTRATION NUMBER: 35,086
 ; REFERENCE/DOCKET NUMBER: 1050.0340003
 ; TELEPHONE: 202-371-2600
 ; TELEFAX: 202-371-2540
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 492 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-590-563-4

Query Match 8.8%; Score 124.5; DB 4; Length 492;
 Best Local Similarity 20.8%; Pred. No. 0.00014;
 Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;

 QY 23 DVRRDDFHGQIQWLPS---KSNNDPNQLWTIKRDGTIR-----SNGSCLTTYGY----- 70
 DB 168 DVVNEAFEDGNSGRCDNSLQRTGND---WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223

 QY 71 --TAGVYMI-----FDCNTAVREATIWIQIWDNGTIINPRSNLVLAASSGIGKTTL 119
 DB 224 AKTOAVYNNVRDFKSRGVPIDC-----VGFQSHFNSGNPNPNFRTTLOQFAAL-GVDV 276

 QY 120 TVOTLDYTLGGWLAGNDTAPRE-----VTIYGRD-----LC 152
 DB 277 EVTELDI-----ENAPAQTYASVIRDCLVDRCTGITVWGVDRSDSWSRYQNPL 326

 QY 153 MESN-----GGSVWV-----ET 164
 DB 327 FDNNGNKQAYAVLDALNEGSDGSGPSNPVPPPGGGSGQIRGVASNRCDIVPNGNT 386

 QY 165 CDSO-----KNQGWALYGDGSRPKQNDCLTSGRDSVSTVINIVSCGASGS 215
 DB 387 ADGTQVQLYDCHSGSNQ-QWYTSSEGFIFGN--KCLDAGGSSNGAVVQIYSCWGGA-N 442

 QY 216 QRWVFTNEGAILNLKTGLAMD-VAQANPKLRRIIYIPATGKPNQMW 260
 DB 443 QKWELRADGTIVGVQSGCLCLDAVGGGTGNGTRLQLYSCWGGNNQKW 488

RESULT 12
 US-08-590-563-7
 ; Sequence 7, Application US/08590563
 ; Patent No. 6300114
 ; GENERAL INFORMATION:
 ; APPLICANT: M ntyl, Arja
 ; APPLICANT: Vehmaanper, Jari
 ; APPLICANT: Fagerstr m, Richard
 ; APPLICANT: Lantto, Raija
 ; APPLICANT: Paloheimo, Marja
 ; APPLICANT: Suominen, Pirkko
 ; APPLICANT: Lahtinen, Tarja
 ; TITLE OF INVENTION: Production and Secretion of Proteins of
 ; NUMBER OF SEQUENCES: 39
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 ; STREET: 1100 New York Ave., N.W. Suite 600
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/590,563
 ; FILING DATE: 26-JAN-1996
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/468,812
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/332,412
 ; FILING DATE: 31-OCT-1994
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/282,001
 ; FILING DATE: 29-JUL-1994
 ; CLASSIFICATION: 536
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bugalsky, Lawrence B.
 ; REGISTRATION NUMBER: 35,086
 ; REFERENCE/DOCKET NUMBER: 1050.0340003
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-371-2600
 ; TELEFAX: 202-371-2540
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 492 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: not relevant
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; POSITION IN GENOME:
 ; CHROMOSOME/SEGMENT: AM50
 ; US-08-590-563-7

Query Match 8.8%; Score 124.5; DB 4; Length 492;
 Best Local Similarity 20.8%; Pred. No. 0.00014;
 Matches 72; Conservative 36; Mismatches 105; Indels 133; Gaps 17;

 QY 23 DVRRDDFHGQIQWLPS---KSNNDPNQLWTIKRDGTIR-----SNGSCLTTYGY----- 70
 DB 168 DVVNEAFEDGNSGRCDNSLQRTGND---WIEVAFRTARQGDPSAKLCYNDYNIENWNA 223

 QY 71 --TAGVYMI-----FDCNTAVREATIWIQIWDNGTIINPRSNLVLAASSGIGKTTL 119
 DB 224 AKTOAVYNNVRDFKSRGVPIDC-----VGFQSHFNSGNPNPNFRTTLOQFAAL-GVDV 276

 QY 120 TVOTLDYTLGGWLAGNDTAPRE-----VTIYGRD-----LC 152
 DB 277 EVTELDI-----ENAPAQTYASVIRDCLVDRCTGITVWGVDRSDSWSRYQNPL 326

 QY 153 MESN-----GGSVWV-----ET 164
 DB 327 FDNNGNKQAYAVLDALNEGSDGSGPSNPVPPPGGGSGQIRGVASNRCDIVPNGNT 386

 QY 165 CDSO-----KNQGWALYGDGSRPKQNDCLTSGRDSVSTVINIVSCGASGS 215
 DB 387 ADGTQVQLYDCHSGSNQ-QWYTSSEGFIFGN--KCLDAGGSSNGAVVQIYSCWGGA-N 442

 QY 216 QRWVFTNEGAILNLKTGLAMD-VAQANPKLRRIIYIPATGKPNQMW 260
 DB 443 QKWELRADGTIVGVQSGCLCLDAVGGGTGNGTRLQLYSCWGGNNQKW 488

RESULT 13
 US-08-468-812-5
 ; Sequence 5, Application US/08468812
 ; Patent No. 5935836
 ; GENERAL INFORMATION:
 ; APPLICANT: Vehmaanper, Jari
 ; APPLICANT: M ntyl, Arja
 ; APPLICANT: Fagerstr m, Richard
 ; APPLICANT: Lantto, Raija

APPLICANT: Lahtinen, Tarja
 TITLE OF INVENTION: Production and Secretion of Proteins of
 NUMBER OF SEQUENCES: 39
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 STREET: 1100 New York Ave., N.W. Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/590,563
 FILING DATE: 26-JAN-1996
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/468,812
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/332,412
 FILING DATE: 31-OCT-1994
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/282,001
 FILING DATE: 29-JUL-1994
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Bugalsky, Lawrence B.
 REGISTRATION NUMBER: 35,086
 REFERENCE/DOCKET NUMBER: 1050.0340003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 480 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: AM50
 15-08-590-563-5

	Query Match	8.6%;	Score 122.5; DB 4;	Length 480;
	Best Local Similarity	32.4%;	Pred. No. 0.00022;	
	Matches 33; Conservative 16;		Mismatches 48;	Indels 5; Gaps 3;
Qy	22 VVRRDDDFHGNQTQLWPFSKSNNDPNLWIKRDTGIRNSGS--CLTTYGYGTAGYVMIFD	80		
	: : : : :	:	:	:
Dd	379 IDVPNGNTADGTQVLVDCHSGS--NQOWYTTSSEFRIFGNKCLDAGGSSNGAVVIYS	436		
Qy	81 CNTAAREATTIWIQINDGTTIIINPRSLNLVAASSGIKGITLTIVQ	122		
b	437 CWGGANOK--WEIPADCTTIGVSGLCLDAVGCGTGNCETPIQ	476		

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RESULT 15
US-08-468-812-8
; Sequence 8, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntly, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Rajja
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko

```

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; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: of Use
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
; US-08-468-812-8

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Query Match      8.6%; Score 122.5; DB 2; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.00023;
Matches 40; Conservative 20; Mismatches 61; Indels 19; Gaps 6;

Qy 7 ASEP-----TVRIYGRNGMRVDRDDFDHGNQIQIQLWPSKSNNDPNQLWTIKRD 55
Db 354 SSEPXXXXXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQIQLMDCHSGT--NQQWAATDA 410

Qy 56 GTIRSNQ-SCLTITYGTAGVYVMIFDCNTAVREATIQIWDNGTIINPRSNLVLA--SS 112
Db 411 GELRVYGDKCLDAAGTNGSKVQIYSCWGGDNQK--WRLNSDGSVVGVQSGLCGLDAVNG 468

Qy 113 GKIGTTLTVQTLDTYTLGGQW 132
Db 469 TANGTLIQLYTCNSGNSQNW 488

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Search completed: March 22, 2003, 09:59:45
Job time : 10.1481 secs

Patent No. US20020142426A1

GENERAL INFORMATION:
 APPLICANT: Olandt, Peter J.
 APPLICANT: Meyers, Rachel E.
 APPLICANT: Galvin, Katherine A.
 APPLICANT: Millennium Pharmaceuticals Inc.
 TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
 TITLE OF INVENTION: Uses Therefor
 FILE REFERENCE: MPI2001-018P1KCP1(M)
 CURRENT APPLICATION NUMBER: US/10/074,527
 CURRENT FILING DATE: 2002-02-12
 PRIOR APPLICATION NUMBER: 60/269202
 PRIOR FILING DATE: 2001-02-15
 NUMBER OF SEQ ID NOS: 9
 SOFTWARE: PastSeq for Windows Version 4.0
 SEQ ID NO 6
 LENGTH: 135
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: consensus
 US-10-074-527-6

Query Match 8.9%; Score 127; DB 12; Length 135;
 Best Local Similarity 25.7%; Pred. No. 0.00015;
 Matches 44; Conservative 20; Mismatches 53; Indels 54; Gaps 9;

QY 14 IVCGRNMRVDV--RDDDFHGNQIQIQLWPSKSNNDPNQLWTI---KRDGTIRNGS-CLTT 67
 Db 7 ICGNTGLCLDVNGNSKSDGNVPQVQLWDCGGG--NQLWKLTYNESDGAIRNSDLCLTV 64
 QY 68 YGYTAGVYVIMFPCNTAVR--EATIQIWDNGTIINPRSNLVLAASSGKIGTTLTVQILD 125
 Db 65 NG-----TWLISCDGTGKNDNQKVEVNDGRTIRNPK--NSKKGVDSG----- 106
 QY 126 YTLGQGLAGNDTAPREVTIYGFRLDLCME--SNGGSVWVETCDSSQKNGKW 175
 Db 107 -----LCLDVKGKQVQLWTCNGSDAPNQKW 132

RESULT 6

US-09-770-621-5
 Sequence 5, Application US/09770621
 Patent No. US20010024815A1
 GENERAL INFORMATION:
 APPLICANT: M ntyl , Arja
 APPLICANT: Vehmaanper , Jari
 APPLICANT: Fagerstr m, Richard
 APPLICANT: Lantto, Raija
 APPLICANT: Paloheimo, Marja
 APPLICANT: Suominen, Pirkko
 APPLICANT: Lahtinen, Tarja
 TITLE OF INVENTION: Production and Secretion of Proteins of
 NUMBER OF SEQUENCES: 39
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 STREET: 1100 New York Ave., N.W. Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/770,621
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/590,563
 FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/332,412
 FILING DATE: 31-OCT-1994
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/282,001
 FILING DATE: 29-JUL-1994
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bugelsky, Lawrence B.
 REGISTRATION NUMBER: 35,086
 REFERENCE/DOCKET NUMBER: 1050.0340003
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 480 amino acids
 TYPE: amino acid
 STRANDEDNESS: No. US20010024815A1 Relevant
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: AM50
 US-09-770-621-5

Query Match 8.6%; Score 122.5; DB 10; Length 480;
 Best Local Similarity 32.4%; Pred. No. 0.002;
 Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;
 QY 22 VDVRRDDFHGNQIQIQLWPSKSNNDPNQLWTIKRDGTIRNGS-CLTTYGYTAGVYVIMFD 80
 Db 379 IDVPNGNTADGTQVQLYDCHSGS--NQQWTVTSSGEPRIFGNKCLDAGGSSNGAVVQIYS 436
 QY 81 CNTAVREATIQIWDNGTIINPRSNLVLAASSGKIGTTLTVQ 122
 Db 437 CWGGANQK--WELRADGTIVGVQSGLCGLDAVGGGTGNGTRLQ 476

RESULT 7

US-09-770-621-8
 Sequence 8, Application US/09770621
 Patent No. US20010024815A1
 GENERAL INFORMATION:
 APPLICANT: M ntyl , Arja
 APPLICANT: Vehmaanper , Jari
 APPLICANT: Fagerstr m, Richard
 APPLICANT: Lantto, Raija
 APPLICANT: Paloheimo, Marja
 APPLICANT: Suominen, Pirkko
 APPLICANT: Lahtinen, Tarja
 TITLE OF INVENTION: Production and Secretion of Proteins of
 NUMBER OF SEQUENCES: 39
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
 STREET: 1100 New York Ave., N.W. Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/770,621
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/590,563
 FILING DATE:

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; CLASSIFICATION:
; PRIOR APPLICATION DATA: US 08/332,412
; APPLICATION NUMBER: 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA: US 08/282,001
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
;
US-09-770-621-8
;
Query Match 8.6%; Score 122.5; DB 10; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.002;
Matches 40; Conservative 20; Mismatches 61; Indels 19; Gaps 6;

QY 7 ASEP-----TVRIVGRNGMRVDVDDDFHDGNGIQIQLWPSKNNDPNQLWTIKRD 55
Db 354 SEPPYXXXXADGQIKGVG-SGRCLVDPDASTSDGTQLQLWCHSGT--NQQWATDA 410
QY 56 GTIRNG-SCLTYGYTAGVYVMIFDCNTAVREATIWIQNDNGTIINPRSNLVLA--SS 112
Db 411 GELRVYGDKCLDAAGTSNGSKVQIYSCWGDNQK--WRLNSDGSVVGVSGLCLDAVNG 468
QY 113 GIKGTLIVOTLDYTLGQW 132
Db 469 TANGTLIQLYTCNSNGSNQRW 488

RESULT 8
US-09-770-621-4
; Sequence 4, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:

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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: US 08/332,412
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA: US 08/282,001
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-09-770-621-4
;
Query Match 8.6%; Score 122.5; DB 10; Length 492;
Best Local Similarity 32.4%; Pred. No. 0.002;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

QY 22 VVDRDDDFHDGNGIQIQLWPSKNNDPNQLWTIKRDGTIRNGS-CLTTYGYTAGVYVMIFD 80
Db 379 IDVPNGTADGTQVQLYDCHSGS--NQQWYTSNGEPRIFGNKCLDAGSSNGCAVVQIYS 436
QY 81 CNTAVREATIWIQNDNGTIINPRSNLVLAASSGIKGTTLTVQ 122
Db 437 CMGGANQK--WELRADGTIVGVOSGLCLDAVGGGTGNGTRLQ 476

RESULT 9
US-09-770-621-7
; Sequence 7, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:

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; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
 ; SEQ ID NO 394
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-394

Query Match 6.5%; Score 93; DB 10; Length 1723;
 Best Local Similarity 22.5%; Pred. No. 5.5;
 Matches 60; Conservative 29; Mismatches 82; Indels 96; Gaps 10;
 ; GENERAL INFORMATION:
 ; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
 ; SEQ ID NO 395
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-395

RESULT 13

US-09-841-132-395
 ; Sequence 395, Application US/09841132
 ; Patent No. US20020061848A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
 ; SEQ ID NO 395
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-395

Query Match 6.5%; Score 93; DB 10; Length 1723;
 Best Local Similarity 22.5%; Pred. No. 5.5;
 Matches 60; Conservative 29; Mismatches 82; Indels 96; Gaps 10;
 ; GENERAL INFORMATION:
 ; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
 ; SEQ ID NO 395
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-395

; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: Fast-SEQ for Windows Version 3.0/4.0
 ; SEQ ID NO 395
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 US-09-841-132-395

QY 125 -----DYTLGQWLAGNDTAPREVITYGFRDLCHMESNGSVWVE-TCD 166
 Db 351 TPAVAPVAATPTPISTQETAGN---GAIYAKQGISISTFKDLTFKSNASVDATLTVD 407
 QY 167 SSQKNQKWALYDGSIRPKNQDCLTSGRD-----SVSTVINIV-----S 208
 Db 408 SSTIGESGAIFAADSIQIOCTGTLFSGNTANKSGGGIYAVGQVLTEDIANLKMNTNT 467
 QY 209 CSGASG---SORWFTNEGAILNLKKG 232
 Db 468 CKGEGGAIYTKKALTINNGAILTTFSG 494

RESULT 14

US-09-808-602-82
 ; Sequence 82, Application US/09808602
 ; Patent No. US20020155115A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Vernet, Corine A
 ; APPLICANT: Fernandes, Elma
 ; APPLICANT: Shimkets, Richard A
 ; APPLICANT: Herrman, John L
 ; APPLICANT: Majumder, Kumud
 ; APPLICANT: Mishra, Vishnu
 ; APPLICANT: Mezes, Peter S
 ; APPLICANT: MacDougall, John
 ; TITLE OF INVENTION: No. US20020155115A1el Proteins and Nucleic Acids Encoding Same
 ; FILE REFERENCE: 15966-697 CIP
 ; CURRENT APPLICATION NUMBER: US/09/808,602
 ; CURRENT FILING DATE: 2001-03-14
 ; PRIOR APPLICATION NUMBER: 09/800,198
 ; PRIOR FILING DATE: 2001-03-05
 ; PRIOR APPLICATION NUMBER: 60/186,596
 ; PRIOR FILING DATE: 2000-03-03
 ; NUMBER OF SEQ ID NOS: 114
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 82
 ; LENGTH: 2771
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 US-09-808-602-82

Query Match 6.5%; Score 92; DB 9; Length 2771;
 Best Local Similarity 23.8%; Pred. No. 13;
 Matches 58; Conservative 27; Mismatches 89; Indels 70; Gaps 13;

QY 60 SNGSCLTYGYTAGYVIMFPCNTAVREATIWIQWD-NGTIINPRSNLVLAAASGIKGT 118
 Db 1593 TSGKHLTYQSLPTGDLXNF---TYTGDGDIHTIDNNGNMVNVRRDST-----GMP 1641
 QY 119 LTVQTLDTLQO-GWLA-GNDTAPREVITYGFRDLCHMESNGSVWVE-TCDSSQKNQKWA 176
 Db 1642 LMLVVPD---QGVYVWTGTNSALRSVTTQGHLEAMTYHNGNSGLLAT-----KSNENGWT 1694
 QY 177 LYGD-----GSIRPKQND---QCLTSGRDSVSTVINIVSCS----- 210
 Db 1695 TPEYDVSFGLRNLNVFTPTGQVSSFRSDTDSVHVQVETSSKDDVTITTNLSASGAFYTL 1754
 QY 211 -----GASGSQVWFTNEGAILNLKKGPAWDVA-QANPKLRRIIYIPATGKPNQM 259
 Db 1755 QDQVRNSYIIGADGSLRLLAN-----GMEVALQTEPHLLAGTAVNPTVGKRN-V 1802
 QY 260 WLPV 263
 Db 1803 TLPI 1806

RESULT 15

US-09-815-656-31
 ; Sequence 31, Application US/09815656
 ; Patent No. US20010041331A1
 ; GENERAL INFORMATION:

Search completed: March 22, 2003, 10:37:35
Job time : 13.2764 secs



GenCore version 5.1.4 p5 4578
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 8.14815 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-10
Perfect score: 1420
Sequence: 1 DDVTCASEPTVIRVGRNGM.....RRIIYPATGKNQMWLPV 264

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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8: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	ID	Description
1	1320.5	93.0	263	4 US-08-776-059-43
2	1320.5	93.0	264	4 US-08-776-059-33
3	1320.5	93.0	564	4 US-08-776-059-35
4	770.5	54.3	540	1 US-08-378-761A-77
5	770.5	54.3	540	1 US-08-485-286-77
6	182.5	12.9	293	4 US-09-512-342-14
7	136	9.6	132	4 US-09-159-106-15
8	136	9.6	435	4 US-09-159-106-11
9	122.5	8.6	480	2 US-08-468-812-5
10	122.5	8.6	480	2 US-08-468-812-5
11	122.5	8.6	491	2 US-08-590-563-5
12	122.5	8.6	491	2 US-08-468-812-8
13	122.5	8.6	491	2 US-08-590-563-8
14	122.5	8.6	492	2 US-08-468-812-4
15	122.5	8.6	492	2 US-08-468-812-7
16	122.5	8.6	492	4 US-08-590-563-4
17	122	8.6	127	1 US-08-590-563-7
18	122	8.6	127	1 US-08-392-828C-39
19	106	7.5	507	4 US-09-330-945-39
20	89	6.3	770	4 US-09-130-337A-25
21	88	6.2	1687	2 US-08-245-248B-31
22	88	6.2	1704	3 US-08-570-311-29
23	88	6.2	1704	3 US-08-336-308A-10
24	88	6.2	1704	3 US-08-822-324-6
25	87.5	6.2	1704	4 US-09-490-931-10
26	86.5	6.1	420	2 US-08-565-386-6
27	86.5	6.1	420	2 US-08-282-197C-63
			420	2 US-08-282-197C-66

ALIGNMENTS

RESULT 1
US-08-776-059-43
; Sequence 43, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776, 059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-43

Query Match 93.0%; Score 1320.5; DB 4; Length 263;
Best Local Similarity 94.7%; Pred. No. 1.6e-128;
Matches 249; Conservative 2; Mismatches 11; Indels 1; Gaps 1;
QY 1 DDVTCASEPTVIRVGRNGMRVDRDDFDGNGIQIOLWPSKSNNDPNQWTKIKRDGTIRS 60
Db 1 DDVTCASEPTVIRVGRNGMCDVDRDDFDGNGIQIOLWPSKSNNDPNQWTKIKRDGTIRS 60
QY 61 NGSLCTTYGTAGVYVIMFDCNTAVREATIWIQWNGTIINPRSNLVLAASSGKGTTLT 120
Db 61 NGSLCTTYGTAGVYVIMFDCNTAVREATIWIQWNGTIINPRSNLVLAASSGKGTTLT 120
QY 121 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLDLMESNGSVVETCDSSOKNOCKWALYGD 180
Db 121 VQTLDTYTLGGWLAGNDTAPREVTIYGFRLDLMESNGSVVETCDSSOKNOCKWALYGD 179
QY 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCSGAGSGQRVFTNEGAILNLKKGPMADVAQA 240
Db 180 GSIRPKQNDQCLTSGRDSVSTVINIVSCSGAGSGQRVFTNEGAILNLKKGPMADVAQA 239
QY 241 NPKLRRIIYPATGKNQMWLPV 263
Db 240 NPKLRRIIYPATGKNQMWLPV 262

Sequence 49, Appl
Sequence 47, Appl
Sequence 8, Appl
Sequence 27, Appl
Sequence 6, Appl
Sequence 6, Appl
Sequence 4, Appl
Sequence 33, Appl
Sequence 33, Appl
Sequence 47, Appl
Sequence 36, Appl
Sequence 3, Appl
Sequence 10, Appl
Sequence 10, Appl

US-08-776-059-35

Query Match 93.0%; Score 1320.5; DB 4; Length 564;
Best Local Similarity 94.7%; Pred. No. 4.9e-128;
Matches 249; Conservative 2; Mismatches 11; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMVDVDRDDDFHGNQIQWLWPSKSNNDPNQWLTIKEDGTIRS 60
DB 302 DDVTCASEPTVRIVGRNGMVDVDRDDDFHGNQIQWLWPSKSNNDPNQWLTIKEDGTIRS 361

QY 61 NSCLTYYGYTAGVYVMI FDCNTAVREATIWIQIWDNGTIIINPRNLVLAASSGIGKGTTLT 120
DB 362 NSCLTYYGYTAGVYVMI FDCNTAVREATIWIQIWDNGTIIINPRNLVLAASSGIGKGTTLT 421

QY 121 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSQKNQKQWALYGD 180
DB 422 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSQKNQKQWALYGD 480

QY 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSAGSGSQRWVFTNEGAILNLKKGPMADVAQA 240
DB 481 GSIRPKQNDQCLTGRDSVSTVINIVSCSAGSGSQRWVFTNEGAILNLKKGPMADVAQA 540

QY 241 NPKLRRIIYPATGKPNQWMLPV 263
DB 541 NPKLRRIIYPATGKPNQWMLPV 563

RESULT 4

US-08-378-761A-77

; Sequence 77, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE BR
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-378-761A-77

Query Match 54.3%; Score 770.5; DB 1; Length 540;
Best Local Similarity 55.4%; Pred. No. 3.2e-71;
Matches 144; Conservative 41; Mismatches 74; Indels 1; Gaps 1;

US-08-776-059-35

Query Match 93.0%; Score 1320.5; DB 4; Length 264;
Best Local Similarity 94.7%; Pred. No. 1.6e-128;
Matches 249; Conservative 2; Mismatches 11; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMVDVDRDDDFHGNQIQWLWPSKSNNDPNQWLTIKEDGTIRS 60
DB 2 DDVTCASEPTVRIVGRNGMVDVDRDDDFHGNQIQWLWPSKSNNDPNQWLTIKEDGTIRS 61

QY 61 NSCLTYYGYTAGVYVMI FDCNTAVREATIWIQIWDNGTIIINPRNLVLAASSGIGKGTTLT 120
DB 62 NSCLTYYGYTAGVYVMI FDCNTAVREATIWIQIWDNGTIIINPRNLVLAASSGIGKGTTLT 121

QY 121 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSQKNQKQWALYGD 180
DB 122 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSQKNQKQWALYGD 180

QY 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSAGSGSQRWVFTNEGAILNLKKGPMADVAQA 240
DB 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSAGSGSQRWVFTNEGAILNLKKGPMADVAQA 240

QY 241 NPKLRRIIYPATGKPNQWMLPV 263
DB 241 NPKLRRIIYPATGKPNQWMLPV 263

RESULT 3

US-08-776-059-35

; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
; US-08-776-059-35

Query Match 93.0%; Score 1320.5; DB 4; Length 264;
Best Local Similarity 94.7%; Pred. No. 1.6e-128;
Matches 249; Conservative 2; Mismatches 11; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMVDVDRDDDFHGNQIQWLWPSKSNNDPNQWLTIKEDGTIRS 60
DB 2 DDVTCASEPTVRIVGRNGMVDVDRDDDFHGNQIQWLWPSKSNNDPNQWLTIKEDGTIRS 61

QY 61 NSCLTYYGYTAGVYVMI FDCNTAVREATIWIQIWDNGTIIINPRNLVLAASSGIGKGTTLT 120
DB 62 NSCLTYYGYTAGVYVMI FDCNTAVREATIWIQIWDNGTIIINPRNLVLAASSGIGKGTTLT 121

QY 121 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSQKNQKQWALYGD 180
DB 122 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGSVVWVETCDSSQKNQKQWALYGD 180

QY 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSAGSGSQRWVFTNEGAILNLKKGPMADVAQA 240
DB 181 GSIRPKQNDQCLTGRDSVSTVINIVSCSAGSGSQRWVFTNEGAILNLKKGPMADVAQA 240

QY 241 NPKLRRIIYPATGKPNQWMLPV 263
DB 241 NPKLRRIIYPATGKPNQWMLPV 263

RESULT 3

US-08-776-059-35

; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
; US-08-776-059-35

QY 5 CSASEPTVRIVGRNGMRVDRDDFDHGNQIOLWPSKSNNDPNQLWTIKRDGTIRSNKGC 64
 Db 282 CNDPEPIVRIVGRNGLCVDVTGEEFFDGNPIQLWPKCKNTDNQLWTLRKDSTIRSNKGC 341
 QY 65 LTTGYTAGVYVMIFFDONTAVREATIWOIWDNGTIINPRSNLVLAASSGIGKTTLTVOQL 124
 Db 342 LTIKSPROQVVIYNCSTATVGTATRWQIWDNRNTIINPRSGILVLAATSGNSGTLTVQTN 401
 QY 125 DYTLOGWLAGNDTAPREVITYIFRDLCKMESNGGSVWVETCDSSOKNOCKWALYDGSIR 184
 Db 402 IYAVSQGLPTNTQPFVTTIVGLYGMCLQANSKWLKEDC-TSEKABQWALYADGSIR 460
 QY 185 PKONODCLTSGRDSVSTVINIVSCGASGSGORWVFTNEGAILNLKKGPMQVADQANPKL 244
 Db 461 PQNRDNCCLTTDANIKGTIVKILSCGPASSGQRMWFKNDGTILNLYGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKPNQWMLPVF 264
 Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 5
 US-08-485-286-77
 ; Sequence 77, Application US/08485286
 ; Patent No. 5646026
 ; Patent No. 5646026 5646119
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSH, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; TITLE OF INVENTION: USING
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSER: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/485,286
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/378761
 ; FILING DATE: 26-JAN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 77:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 540 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-485-286-77

Query Match 54.3%; Score 770.5; DB 1; Length 540;
 Best Local Similarity 55.4%; Pred. No. 3.2e-71;
 Matches 144; Conservative 41; Mismatches 74; Indels 1; Gaps 1;

QY 5 CSASEPTVRIVGRNGMRVDRDDFDHGNQIOLWPSKSNNDPNQLWTIKRDGTIRSNKGC 64
 Db 282 CNDPEPIVRIVGRNGLCVDVTGEEFFDGNPIQLWPKCKNTDNQLWTLRKDSTIRSNKGC 341
 QY 65 LTTGYTAGVYVMIFFDONTAVREATIWOIWDNGTIINPRSNLVLAASSGIGKTTLTVOQL 124
 Db 342 LTIKSPROQVVIYNCSTATVGTATRWQIWDNRNTIINPRSGILVLAATSGNSGTLTVQTN 401
 QY 125 DYTLOGWLAGNDTAPREVITYIFRDLCKMESNGGSVWVETCDSSOKNOCKWALYDGSIR 184
 Db 402 IYAVSQGLPTNTQPFVTTIVGLYGMCLQANSKWLKEDC-TSEKABQWALYADGSIR 460
 QY 185 PKONODCLTSGRDSVSTVINIVSCGASGSGORWVFTNEGAILNLKKGPMQVADQANPKL 244
 Db 461 PQNRDNCCLTTDANIKGTIVKILSCGPASSGQRMWFKNDGTILNLYGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKPNQWMLPVF 264
 Db 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 6
 US-09-512-342-14
 ; Sequence 14, Application US/09512342
 ; Patent No. 6388068
 ; GENERAL INFORMATION:
 ; APPLICANT: SATOH, SHINORU
 ; APPLICANT: MASUDA, SUSUMU
 ; TITLE OF INVENTION: METHOD FOR PRODUCING FOREIGN POLYPEPTIDE IN PLANT
 ; TITLE OF INVENTION: INTERCELLULAR FLUID
 ; FILE REFERENCE: 081356/0142
 ; CURRENT APPLICATION NUMBER: US/09/512,342
 ; CURRENT FILING DATE: 2000-02-24
 ; NUMBER OF SEQ ID NOS: 38
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 293
 ; TYPE: PRT
 ; ORGANISM: Cucumis sativus
 ; US-09-512-342-14

Query Match 12.9%; Score 182.5; DB 4; Length 293;
 Best Local Similarity 28.1%; Pred. No. 7.6e-11;
 Matches 63; Conservative 31; Mismatches 91; Indels 39; Gaps 10;
 QY 14 IVGRNGMRVDRDDFDHGNQIOLW-----PSK-----SNNDPNQLWTIKRDGTIR-- 59
 Db 41 LVGRDGLCLEMSP-----WYKPAINFPTRLSPCDEKKOTQLWTIVGDGTIRPM 89
 QY 60 SNGSLTT---YGTAGVYVMIFFDONTAVREATIWOIWDNGTIINPRSNLVLAASSGIGK 116
 Db 90 NDKFCCLAAEVFYGVIN--KAVVSECGKVDPNKKTKQKDGTTIALVDSRNLVTGDLDY-- 145
 QY 117 TLTIVQTLDTLGOGLAGNDTAPREVITYIFRDLCKMESNGGS--VWVETCDSSOKNOCK 174
 Db 146 --VTLSQNKYTPSQSWEVTELSNVMANIELNLCQTDSDSHVGLNGCNTDNKYQ-R 202
 QY 175 WALYDGSIRPKONODCLTSGRDSVSTVINIVSCGASGSGQW 218
 Db 203 WALYADGTIIRQHVNNKYLTSDDQDFGRFV--VVSCKEDKPKQWR 244

RESULT 7
 US-09-159-106-15
 ; Sequence 15, Application US/09159106
 ; Patent No. 6284509
 ; GENERAL INFORMATION:
 ; APPLICANT: Ferrer, Pau
 ; APPLICANT: Diers, Ivan
 ; APPLICANT: Halkier, Torben
 ; APPLICANT: Hedegaard, Lisbeth
 ; TITLE OF INVENTION: An Enzyme with -1,3-Glucanase
 ; TITLE OF INVENTION: Activity

us-09-601-667c-10.ra1

Sat Mar 22 10:41:07 2003

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; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
US-09-159-106-15

Query Match          9.6%; Score 136; DB 4; Length 132;
Best Local Similarity 36.3%; Pred. No. 1.5e-06;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;

QY 18 NGMRVDDDDFDHGNQIQWLWPSKSNNDPNQWLTKRGTIRNSGSLTTY--GYTAGVY 75
Db 14 NGMCVDVFPWADPTDGNPQIVTCSN--AAQTWTRGSDGTVRALGKCLDVRDGSSTRGAA 71
QY 76 VMIFDCNTAVREATIWIW--DNGT--IINPRSNVLAASSGI---KGTTLTIVOTLDTYL 128
Db 72 VQWTCN-----GTGAQKWAYDAGSKALRNPOSGLCCLDGTGAPLRDQRLQWTCNGTT 126

QY 129 GOGW 132
Db 127 AQOW 130

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RESULT 8
US-09-159-106-11
; Sequence 11, Application US/09159106
; Patent No. 6284509
; GENERAL INFORMATION:
; APPLICANT: Ferrer, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Halkier, Torben
; APPLICANT: Hedegaard, Lisbeth
; TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
; TITLE OF INVENTION: Activity
; FILE REFERENCE: 4693.204-US
; CURRENT APPLICATION NUMBER: US/09/159,106
; CURRENT FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: 0427/96
; EARLIER FILING DATE: 1996-12-04
; EARLIER APPLICATION NUMBER: 0885/96
; EARLIER FILING DATE: 1996-08-23
; EARLIER APPLICATION NUMBER: PCT/DK97/00160
; EARLIER FILING DATE: 1997-04-14
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oerskovia xanthineolytica
US-09-159-106-11

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Query Match          9.6%; Score 136; DB 4; Length 435;
Best Local Similarity 36.3%; Pred. No. 8.7e-06;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;

QY 18 NGMRVDDDDFDHGNQIQWLWPSKSNNDPNQWLTKRGTIRNSGSLTTY--GYTAGVY 75
Db 317 NGMCVDVFPWADPTDGNPQIVTCSN--AAQTWTRGSDGTVRALGKCLDVRDGSSTRGAA 374
QY 76 VMIFDCNTAVREATIWIW--DNGT--IINPRSNVLAASSGI---KGTTLTIVOTLDTYL 128
Db 375 VQWTCN-----GTGAQKWAYDAGSKALRNPOSGLCCLDGTGAPLRDQRLQWTCNGTT 429

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QY 129 GOGW 132
Db 430 AQOW 433

RESULT 9
US-08-468-812-5
; Sequence 5, Application US/08468812
; Patent No. 5915836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: of Use
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lary B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
; US-08-468-812-5

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Query Match          8.6%; Score 122.5; DB 2; Length 480;
Best Local Similarity 32.4%; Pred. No. 0.00025;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

QY 22 VVRRDDDDFDHGNQIQWLWPSKSNNDPNQWLTKRGTIRNSGSLTTYGYTAGVYVWIFD 80
Db 379 IDVFNNGTADGTQVQLYDCHSGS--NQOWTYSSEGFIFGNKCLDAGSSNGAVVQIYS 436
QY 81 CNTAVREATIWIW--DNGT--IINPRSNVLAASSGIKGTTLTVQ 122

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QY 81 CNTAVREATIWIQNDGTIINPRSNLVLAASSGIGKFTTLTVQ 122
Db 437 CWGGANQK--WELRADGTIVGVQSGLCCLDAVGGGTGNGTRLQ 476

RESULT 14

US-08-468-812-7
; Sequence 7, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; TITLE OF INVENTION: of Use
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Bugalsky, Larry B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340002
TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50

US-08-468-812-7

Query Match 8.6%; Score 122.5; DB 2; Length 492;
Best Local Similarity 32.4%; Pred. No. 0.00026;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

QY 22 VDVRDDDFHGNQIQLPWPSKNNDPNOLWIKEDGTIRNGS-CLTTYGTAGVYVMIFD 80

Db 379 IDVPGNTADGTQVLYDCHSGS--NQWYTSSSGFEFRIFGNKCLDAGSSNGAVVQIYS 436

QY 81 CNTAVREATIWIQNDGTIINPRSNLVLAASSGIGKFTTLTVQ 122

Db 437 CWGGANQK--WELRADGTIVGVQSGLCCLDAVGGGTGNGTRLQ 476

RESULT 15

US-08-590-563-4
; Sequence 4, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmaanper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Bugalsky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340003
TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-590-563-4

Query Match 8.6%; Score 122.5; DB 4; Length 492;
Best Local Similarity 32.4%; Pred. No. 0.00026;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

QY 22 VDVRDDDFHGNQIQLPWPSKNNDPNOLWIKEDGTIRNGS-CLTTYGTAGVYVMIFD 80

Db 379 IDVPGNTADGTQVLYDCHSGS--NQWYTSSSGFEFRIFGNKCLDAGSSNGAVVQIYS 436

QY 81 CNTAVREATIWIQNDGTIINPRSNLVLAASSGIGKFTTLTVQ 122

Db 437 CWGGANQK--WELRADGTIVGVQSGLCCLDAVGGGTGNGTRLQ 476

Sat Mar 22 10:41:07 2003

us-09-601-667c-10.ra1

Page 8

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Job time : 9.14815 secs

GenCore version 5.1.4 p5_4578
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OM protein - protein search, using sw model

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Title: US-09-601-667C-11

Perfect score: 1416

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Searched: Gapop 10.0 , Gapext 0.5

221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	171	12.1	145	12	US-10-074-527-5
4	127	9.0	135	9	US-09-973-457-5
5	127	9.0	135	12	US-10-074-527-6
6	122.5	8.7	480	10	US-09-770-621-5
7	122.5	8.7	491	10	US-09-770-621-8
8	122.5	8.7	492	10	US-09-770-621-4
9	122.5	8.7	492	10	US-09-770-621-7
10	98	6.9	612	12	US-10-001-851-25
11	95	6.7	295	10	US-09-815-242-11833
12	91	6.4	1723	10	US-09-841-132-394
13	91	6.4	1723	10	US-09-841-132-395
14	90.5	6.4	770	10	US-09-815-656-31
15	88.5	6.2	239	10	US-09-910-071-15
16	86	6.1	2771	9	US-09-808-602-82
17	83	5.9	2353	10	US-09-797-862-33
18	82.5	5.8	836	9	US-09-858-525A-10
19	82.5	5.8	871	9	US-09-858-525A-2

20	81	5.7	1781	9	US-09-985-749A-2	Sequence 2, Appli
21	80.5	5.7	559	12	US-10-001-851-23	Sequence 23, Appl
22	80.5	5.7	722	10	US-09-815-242-12888	Sequence 12888, A
23	80.5	5.7	991	10	US-09-815-242-5803	Sequence 5803, Ap
24	80.5	5.7	4545	10	US-09-873-403-2	Sequence 2, Appli
25	79	5.6	626	12	US-10-001-851-27	Sequence 27, Appl
26	79	5.6	770	9	US-09-992-896-9	Sequence 9, Appli
27	77.5	5.5	425	9	US-09-813-398-32	Sequence 32, Appl
28	77.5	5.5	3571	9	US-10-150-821-2	Sequence 2, Appli
29	77.5	5.5	3571	10	US-09-911-842-2	Sequence 2, Appli
30	77	5.4	925	10	US-09-452-380-4	Sequence 4, Appli
31	77	5.4	936	10	US-09-452-380-3	Sequence 3, Appli
32	77	5.4	1737	9	US-09-808-602-83	Sequence 83, Appl
33	77	5.4	2724	9	US-09-808-602-13	Sequence 13, Appl
34	77	5.4	2733	9	US-09-808-602-8	Sequence 8, Appli
35	76.5	5.4	448	9	US-10-265-593-2	Sequence 2, Appli
36	76.5	5.4	559	12	US-10-001-851-24	Sequence 24, Appl
37	76.5	5.4	1536	9	US-10-092-880-2	Sequence 2, Appli
38	76	5.4	1848	9	US-09-839-596-6	Sequence 6, Appli
39	75.5	5.3	356	9	US-09-976-059-8	Sequence 8, Appli
40	75.5	5.3	608	10	US-09-924-358-8	Sequence 8, Appli
41	75.5	5.3	1541	9	US-09-839-996-3	Sequence 3, Appli
42	75	5.3	207	10	US-09-780-717-26	Sequence 26, Appl
43	75	5.3	330	9	US-10-084-700-27	Sequence 27, Appl
44	75	5.3	434	10	US-09-770-621-6	Sequence 6, Appli
45	75	5.3	466	10	US-09-741-669-303	Sequence 303, App

ALIGNMENTS

RESULT 1

US-09-347-064-10
; Sequence 10, Application US/09347064A
; Patent No. US20020045208A1

; GENERAL INFORMATION:

; APPLICANT: Eck, Jurgen

; APPLICANT: Schmidt, Arno

; APPLICANT: Zinke, Holger

; TITLE OF INVENTION: Recombinant Fusion Proteins Based on

; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum

; TITLE OF INVENTION: album

; FILE REFERENCE: 09282-5

; CURRENT APPLICATION NUMBER: US/09/347,064A

; EARLIER FILING DATE: 1999-07-02

; EARLIER APPLICATION NUMBER: PCT/EP98/00009

; EARLIER FILING DATE: 1998-01-02

; EARLIER APPLICATION NUMBER: EP 97 10 0012.0

; EARLIER FILING DATE: 1997-01-02

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 10

; LENGTH: 263

; TYPE: PRT

; ORGANISM: Viscum album

US-09-347-064-10

Query Match

Best Local Similarity 93.1%; Score 1318.5; DB 10; Length 263;

Matches 248; Conservative 3; Mismatches 11; Indels 1; Gaps 1;

Qy 1 DDVTCASPTVRIVGRNGRVDVDDFDHGNQIQWLWPSKSNNDPQLTIKEDGTIRS 60

Db 1 DDVTCASPTVRIVGRNGRVDVDDFDHGNQIQWLWPSKSNNDPQLTIKEDGTIRS 60

Qy 61 NGSCLTYYGYTAGYVYVIFDCNTAVREATIWIQWNGNTIINPRSNLVAASSGKGTTLT 120

Db 61 NGSCLTYYGYTAGYVYVIFDCNTAVREATIWIQWNGNTIINPRSNLVAASSGKGTTLT 120

Qy 121 VQTLDYTLGQGLWAGLNDTAPREVTIYGFRLCMESNGSGVWVETCDSSQKNQKWLALYGD 180

Db 121 VQTLDYTLGQGLWAGLNDTAPREVTIYGFRLCMESNGSGVWVETCDSSQKNQKWLALYGD 179

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QY 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGQSRWVFTNEGAILNKLKSLMVDVAQA 240
Db 180 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGQSRWVFTNEGAILNKLKSLMVDVAQA 239
QY 241 NPKLRIIYIPATGKPNQWMLPV 263
Db 240 NPKLRIIYIPATGKPNQWMLPV 262

RESULT 2
US-09-347-064-4
; Sequence 4, Application US/09347064A
; Patent No. US20020045208A1
; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen
; APPLICANT: Schmidt, Arno
; APPLICANT: Zinke, Holger
; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum
; TITLE OF INVENTION: album
; FILE REFERENCE: 09282-5
; CURRENT APPLICATION NUMBER: US/09/347,064A
; CURRENT FILING DATE: 1999-07-02
; EARLIER APPLICATION NUMBER: PCT/EP98/00009
; EARLIER FILING DATE: 1998-01-02
; EARLIER APPLICATION NUMBER: EP 97 10 0012.0
; EARLIER FILING DATE: 1997-01-02
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 4
; LENGTH: 267
; TYPE: PRT
; ORGANISM: Viscum album
; US-09-347-064-4

Query Match 93.1%; Score 1318.5; DB 10; Length 267;
Best Local Similarity 94.3%; Pred. No. 4e-115;
Matches 248; Conservative 3; Mismatches 11; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMVDVDRDDFDHGNQIQWLWPSKSNNDPNQLWTIKRDGTIRS 60
Db 1 DDVTCASEPTVRIVGRNGMVDVDRDDFDHGNQIQWLWPSKSNNDPNQLWTIKRDGTIRS 60
QY 61 NGSCLTYYGYTAGVYVMIFDCNTAVREATIWIQWNGTIINPRSNLVLAASSGIGKTTLT 120
Db 61 NGSCLTYYGYTAGVYVMIFDCNTAVREATIWIQWNGTIINPRSNLVLAASSGIGKTTLT 120
QY 121 VOTLDYTLGGWLAGNDTAPREVITYIGRDLCEMSNGSGVWVETCDSSQKQKWLALYGD 180
Db 121 VOTLDYTLGGWLAGNDTAPREVITYIGRDLCEMSNGSGVWVETCDSSQKQKWLALYGD 179
QY 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGQSRWVFTNEGAILNKLKSLMVDVAQA 240
Db 180 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGQSRWVFTNEGAILNKLKSLMVDVAQA 239
QY 241 NPKLRIIYIPATGKPNQWMLPV 263
Db 240 NPKLRIIYIPATGKPNQWMLPV 262

RESULT 3
US-10-074-527-5
; Sequence 5, Application US/10074527
; Patent No. US20020142426A1
; GENERAL INFORMATION:
; APPLICANT: Olandt, Peter J.
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Galvin, Katherine A.
; APPLICANT: Millennium Pharmaceuticals Inc.
; TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
; TITLE OF INVENTION: Uses Therefor
; FILE REFERENCE: MPI2001-018PIRCPI(M)
; CURRENT APPLICATION NUMBER: US/10/074,527
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; CURRENT FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 60/269202
; PRIOR FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus
; US-10-074-527-5

Query Match 12.1%; Score 171; DB 12; Length 145;
Best Local Similarity 32.8%; Pred. No. 1.1e-08;
Matches 45; Conservative 20; Mismatches 58; Indels 14; Gaps 4;

QY 11 TVRIYGRNGMRVDRDDFDHGNQIQWLWPSKSNNDPNQLWTI---KRDGTIRS---NGSC 64
Db 7 TILVNGSGRCLDVNSSGESDGNQVQLWNCNSPKGNKWSLTLYDESDEIRSVVNNDKC 66
QY 65 LTTYGYTAGVYVMIFDCNTAVREATIWIQWNGTIINP-----RSNLVL--AASSGIGK 116
Db 67 LTVNANSPGSEVKLYQCDSATSDNQKWLNDGLIGNKILLNVLNVTGLVLDVKGSDTQNG 126
QY 117 TLTLYVQTLDTYTLGGWML 133
Db 127 TKLILYTCGGRNQWML 143

RESULT 4
US-09-973-457-5
; Sequence 5, Application US/09973457
; Patent No. US20020164746A1
; GENERAL INFORMATION:
; APPLICANT: Kapeller-Libermann, Rosana
; TITLE OF INVENTION: 47174, A NOVEL HUMAN GLYCOSYLTRANSFERASE
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: 10448-099001
; CURRENT APPLICATION NUMBER: US/09/973,457
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/238,849
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 135
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence
; US-09-973-457-5

Query Match 9.0%; Score 127; DB 9; Length 135;
Best Local Similarity 25.7%; Pred. No. 0.00012;
Matches 44; Conservative 20; Mismatches 53; Indels 54; Gaps 9;

QY 14 IVGRNGMRVDR--RDDDFDHGNQIQWLWPSKSNNDPNQLWTI---KRDGTIRSNGS--CLTT 67
Db 7 IGGNTGLCLDVNGNSKSDGNPVQLWDCGGG--NQLWKLTYNESDGAIRNSDCLTLV 64
QY 68 YGYTAGVYVMIFDCNTAVR--EATIWQIWDNGTIINPRSNLVLAASSGIGKTTLTFTVQTL 125
Db 65 NG-----TVLTYSCTDGTGKNDNQKWEVKNKGTIRNPK--NSKKGVDSG----- 106
QY 126 YTLGGWLAGNDTAPREVITYIGRDLCEM--SNGSGVWVETCDSSQKQKWL 175
Db 107 -----LCLDVKQGNKVLWTCNGSDAPNQKW 132

RESULT 5
US-10-074-527-6
; Sequence 6, Application US/10074527
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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. US20010024815A1 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
; US-09-770-621-8

Query Match      8.7%; Score 122.5; DB 10; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.0018;
Matches 40; Conservative 20; Mismatches 61; Indels 19; Gaps 6;

QY 7 ASEP-----TVRIVGRNMRVDVDDDFDHGDNQIQWLWPSKSNNDPNQLWTIKRD 55
DB 354 SSEPXXXXXADGGQIKGVG-SGRCLDVPDASTSDTQLQWDCHSGT--NQOWAATDA 410
QY 56 GTIRSNQ-SCLTYYGYTAGVYVMIFDNCNTAVREATIWIQIWDNGTINPRNLVLAA--SS 112
DB 411 GELRVYGDKCLDAAGTSGSKVQIYSCWGGDNQK--WRLNSDGSVVGVSGLCLDAVNG 468
QY 113 GIKGTTLTVTQTLDTLGGGW 132
DB 469 TANGTLQLYTCNSGNSQNR 488

RESULT 8
US-09-770-621-4
; Sequence 4, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:

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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-770-621-4

Query Match      8.7%; Score 122.5; DB 10; Length 492;
Best Local Similarity 32.4%; Pred. No. 0.0018;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

QY 22 VDVRRDDFDHGNQIQWLWPSKSNNDPNQLWTIKRDGTIRSNQ-CLTTYGYTAGVYVMIFD 80
DB 379 IDVPGNTADGTQQLYDCHSGS--NQOWTYSSEGFIFGNKCLDAGGSSNGAVVQIYS 436
QY 81 CNTAVREATIWIQIWDNGTINPRNLVLAASSGKIGKTTLTQ 122
DB 437 CWGGANQK--WELRADGTIVGVQSLCLDAVGGGTGNGTRLQ 476

RESULT 9
US-09-770-621-7
; Sequence 7, Application US/09770621
; Patent No. US20010024815A1
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/770,621
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/590,563

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Qy 125 -----DYTLGQWLAGNDTAPREVTIYGRDLWESNGGSVWVE-TCD 166
 Db 351 TPAVAPVAATPTTPISTQETAGNG--GAIYAKQGISISTFKDLTFKSNASVDATLTVD 407
 Qy 167 SSQKQKQWALYDGSIRPKNQDCLTSGRD-----SVSTVINIV-----S 208
 Db 408 SSTIGESGAIFAADSIIQIOCTGTTLFSGNTANKSGGIYAVGQVTLIEDIANLKMTNNT 467
 Qy 209 CSGASG---SORWFTNEGAIL 227
 Db 468 CKEGGAIYTKKALTINNGAIL 489

RESULT 14

US-09-815-656-31
 ; Sequence 31, Application US/09815656
 ; Patent No. US20010041331A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Abbott Laboratories
 ; APPLICANT: Leary, Thomas
 ; APPLICANT: Erker, James
 ; APPLICANT: Chalmers, Michelle
 ; APPLICANT: Simons, John
 ; APPLICANT: Birkenmeyer, Larry
 ; APPLICANT: Muerhoff, Scott
 ; APPLICANT: Pilot-Matias, Tami
 ; APPLICANT: Desai, Suresh
 ; APPLICANT: Muehahwar, Isa
 ; TITLE OF INVENTION: METHODS OF UTILIZING THE TT VIRUS
 ; FILE REFERENCE: 6461.US.O1
 ; CURRENT APPLICATION NUMBER: US/09/815,656
 ; CURRENT FILING DATE: 2001-03-23
 ; PRIOR APPLICATION NUMBER: 09/245,248
 ; PRIOR FILING DATE: 1999-02-05
 ; NUMBER OF SEQ ID NOS: 71
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 31
 ; LENGTH: 770
 ; TYPE: PRT
 ; ORGANISM: Homo sapien
 ; US-09-815-656-31

Query Match 6.4%; Score 90.5; DB 10; Length 770;
 Best Local Similarity 20.7%; Pred. No. 3.1;
 Matches 44; Conservative 25; Mismatches 91; Indels 53; Gaps 8;

Qy 61 NGSCLTTYG-----YTAGVYVWIFDCNTAVREATIWIQIWDNGTIINPR----- 103
 Db 321 SGTITTTWGSLLNTTKFTTTTTTTTTTYTTPGTNTTIVTITANDSWYRGTVVYNQNKDVAKK 380
 Qy 104 -SNLVLAASSGIRKGTTLTVQTLDTLGGQ-----WLAGNDT---APREVTIYGRDL 152
 Db 381 AAELYSKATRAVLGNTFT--TEDYTLGYHGLYSSIWLSFGRSYFETPGAYTDIKYNPFT 438
 Qy 153 MESNGGSVWVETCDSSQKQKQWALYDGSIRPKNQDCLTSGRDSVSTVINIVS-CSG 211
 Db 439 DRGEGNMLWIDLKSKNNYDK-----VOSKCLISDPLWAAAYGVVECAK 485
 Qy 212 ASGSQRWVFTNEGAILNLKNSLMVMDVAQANPKL 244
 Db 486 STGDQN-----IHMNARLLIRSPFTDPQL 509

RESULT 15

US-09-910-071-15
 ; Sequence 15, Application US/09910071
 ; Patent No. US20020116146A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Tomikawa, Mayumi
 ; APPLICANT: Aikawa, Seichi
 ; APPLICANT: Matsuzawa, Fumiko
 ; TITLE OF INVENTION: Method and Apparatus for Extracting and Evaluating Mutually Similar

; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: FastSeq for Windows Version 3.0/4.0
 ; SEQ ID NO 394
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 ; US-09-841-132-394

Query Match 6.4%; Score 91; DB 10; Length 1723;
 Best Local Similarity 22.5%; Pred. No. 7.9;
 Matches 59; Conservative 29; Mismatches 78; Indels 96; Gaps 10;

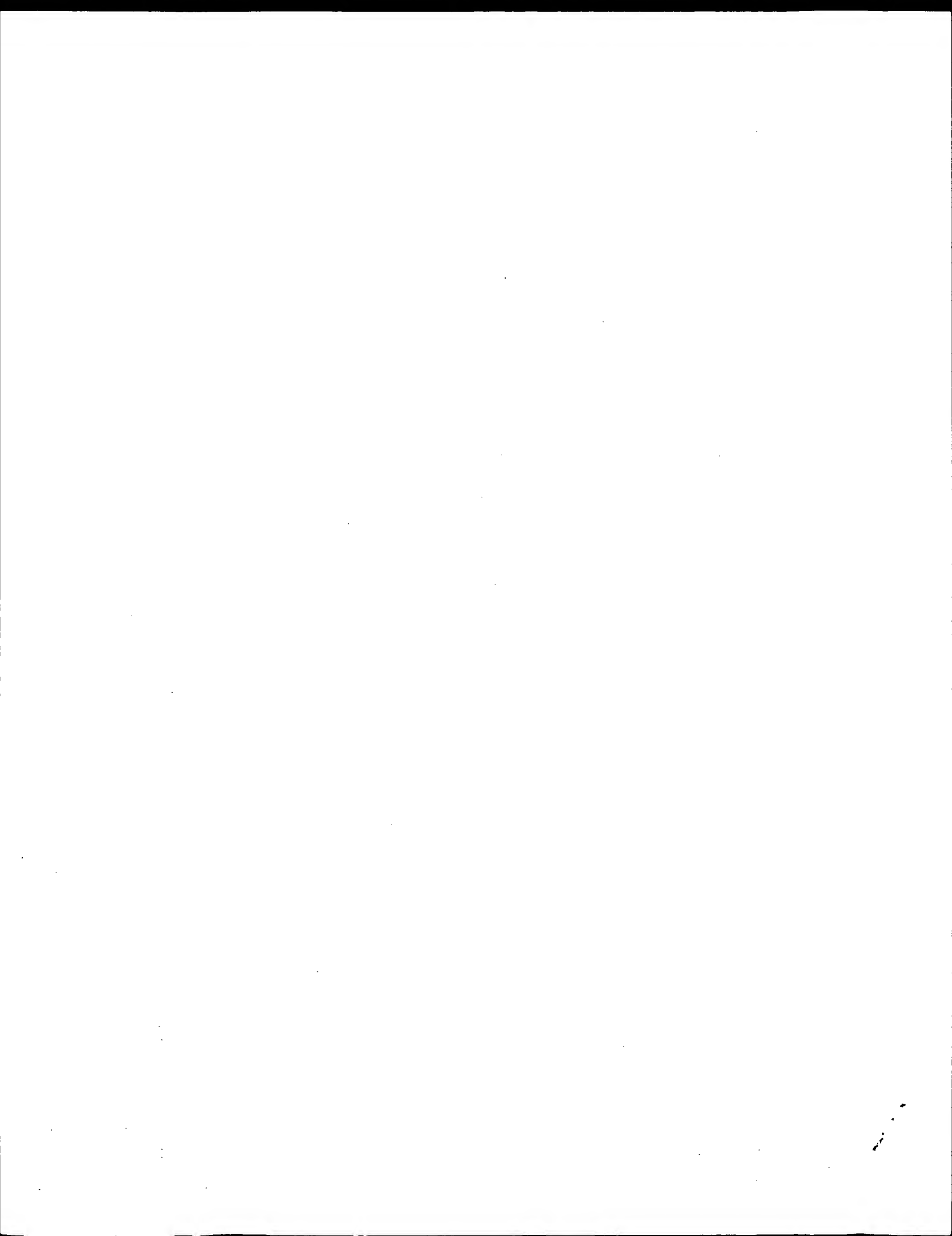
Qy 59 RNSGCLTTYGYT--AGVYVWIFDCNTA-----VREATIWIQIWDN-----G 97
 Db 231 KSGNAYTEGALTQAIVEATFTGNTSAGOGGAIYVKEATLFNALDSLAKFEKNTSGQAG 290
 Qy 98 TIINPRSNLVL-----AASSGIRKGTTLTVQTL----- 124
 Db 291 GGIYTESTLTISNITKSTIEFISNKASVPAPAPETSPAPSSLINSTIDTSTLOTTRAASA 350
 Qy 125 -----DYTLGQWLAGNDTAPREVTIYGRDLWESNGGSVWVE-TCD 166
 Db 351 TPAVAPVAATPTTPISTQETAGNG--GAIYAKQGISISTFKDLTFKSNASVDATLTVD 407
 Qy 167 SSQKQKQWALYDGSIRPKNQDCLTSGRD-----SVSTVINIV-----S 208
 Db 408 SSTIGESGAIFAADSIIQIOCTGTTLFSGNTANKSGGIYAVGQVTLIEDIANLKMTNNT 467
 Qy 209 CSGASG---SORWFTNEGAIL 227
 Db 468 CKEGGAIYTKKALTINNGAIL 489

RESULT 13

US-09-841-132-395
 ; Sequence 395, Application US/09841132
 ; Patent No. US20020061848A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bhatia, Ajay
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Probst, Peter
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 ; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
 ; FILE REFERENCE: 210121.469C8
 ; CURRENT APPLICATION NUMBER: US/09/841,132
 ; CURRENT FILING DATE: 2001-04-23
 ; NUMBER OF SEQ ID NOS: 599
 ; SOFTWARE: FastSeq for Windows Version 3.0/4.0
 ; SEQ ID NO 395
 ; LENGTH: 1723
 ; TYPE: PRT
 ; ORGANISM: Chlamydia pneumoniae
 ; US-09-841-132-395

Query Match 6.4%; Score 91; DB 10; Length 1723;
 Best Local Similarity 22.5%; Pred. No. 7.9;
 Matches 59; Conservative 29; Mismatches 78; Indels 96; Gaps 10;

Qy 59 RNSGCLTTYGYT--AGVYVWIFDCNTA-----VREATIWIQIWDN-----G 97
 Db 231 KSGNAYTEGALTQAIVEATFTGNTSAGOGGAIYVKEATLFNALDSLAKFEKNTSGQAG 290
 Qy 98 TIINPRSNLVL-----AASSGIRKGTTLTVQTL----- 124
 Db 291 GGIYTESTLTISNITKSTIEFISNKASVPAPAPETSPAPSSLINSTIDTSTLOTTRAASA 350



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OM protein - protein search, using sw model

Run on: March 22, 2003, 09:56:55 ; Search time 8.14815 Seconds
(without alignments)
953.303 Million cell updates/sec

Title: US-09-601-667C-11
Perfect score: 1416
Sequence: 1 DDVTCASEPTVIRVGRNGM.....RRIIYPATGKNQWMLPVF 264

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Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1318.5	93.1	263	4	US-08-776-059-43
2	1318.5	93.1	264	4	US-08-776-059-33
3	1318.5	93.1	564	4	US-08-776-059-35
4	777.5	54.9	540	1	US-08-378-761A-77
5	777.5	54.9	540	1	US-08-485-286-77
6	185.5	13.1	293	4	US-09-512-342-14
7	136	9.6	132	4	US-09-159-106-15
8	136	9.6	435	4	US-09-159-106-11
9	122.5	8.7	480	2	US-08-468-812-5
10	122.5	8.7	480	4	US-08-590-563-5
11	122.5	8.7	491	2	US-08-468-812-8
12	122.5	8.7	491	4	US-08-590-563-8
13	122.5	8.7	492	2	US-08-468-812-4
14	122.5	8.7	492	2	US-08-468-812-7
15	122.5	8.7	492	4	US-08-590-563-4
16	122.5	8.7	492	4	US-08-590-563-7
17	122	8.6	127	1	US-08-392-828C-39
18	122	8.6	127	3	US-09-330-945-39
19	106	7.5	507	4	US-09-130-337A-25
20	90.5	6.4	770	4	US-09-245-248B-31
21	87.5	6.2	553	1	US-08-565-386-6
22	86.5	6.1	420	2	US-08-282-197C-63
23	86.5	6.1	420	2	US-08-282-197C-66
24	84	5.9	1087	2	US-08-570-311-8
25	84	5.9	1087	2	US-08-353-485-8
26	84	5.9	1358	2	US-08-570-311-27
27	83	5.9	1912	1	US-08-409-995-4

Sequence 4, Appl
Sequence 33, Appl
Sequence 4, Appl
Sequence 33, Appl
Sequence 4, Appl
Sequence 36, Appl
Sequence 3535, Ap
Sequence 10, Appl
Sequence 10, Appl
Sequence 2, Appl
Sequence 29, Appl
Sequence 10, Appl
Sequence 6, Appl
Sequence 10, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 9, Appl

ALIGNMENTS

RESULT 1
US-08-776-059-43
; Sequence 43, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776, 059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-43

Query Match 93.1%; Score 1318.5; DB 4; Length 263;
Best Local Similarity 94.3%; Pred. No. 4.4e-131;
Matches 248; Conservative 3; Mismatches 11; Indels 1; Gaps 1;
QY 1 DDVTCASEPTVIRVGRNGMRVDRDDFDHGNQIQWLWPSKSNNDPNQWLTKRDGTIRS 60
Db 1 DDVTCASEPTVIRVGRNGMCDVDRDDFDHGNQIQWLWPSKSNNDPNQWLTKRDGTIRS 60
QY 61 NGSCLTFTYGTAGYVYMFPCNTAVREATIQTWIDNGTINPRSNLVLAASSGIGKTTLT 120
Db 61 NGSCLTFTYGTAGYVYMFPCNTAVREATIQTWIDNGTINPRSNLVLAASSGIGKTTLT 120
QY 121 VQTLDTYTLGGWLAGNDTAPREVTIYGFDRCLNCSNGSVVWVETCDSSOKNOGKWLAYGD 180
Db 121 VQTLDTYTLGGWLAGNDTAPREVTIYGFDRCLNCSNGSVVWVETCDSSOKNOGKWLAYGD 179
QY 181 GSIRPKNOQCLTSGRDSVSTVINIVSCSGASGSGQRWFTNEGAILNKNLSLWVDVAQA 240
Db 180 GSIRPKNOQCLTSGRDSVSTVINIVSCSGASGSGQRWFTNEGAILNKNLSLWVDVAQA 239
QY 241 NPKLRRIIYPATGKNQWMLPV 263
Db 240 NPKLRRIIYPATGKNQWMLPV 262

US-08-776-059-35

Query Match 93.1%; Score 1318.5; DB 4; Length 564;
Best Local Similarity 94.3%; Pred. No. 1.4e-130;
Matches 248; Conservative 3; Mismatches 11; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMRVDVDRDDDFHDGNOIQWLWPSKSNNDPNQWTKIKRDGTIRS 60
DB 302 DDVTCASEPTVRIVGRNGMRVDVDRDDDFHDGNOIQWLWPSKSNNDPNQWTKIKRDGTIRS 361

QY 61 NGSCLTYYGTAGVYVMIFDNCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKIGTTLT 120
DB 362 NGSCLTYYGTAGVYVMIFDNCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKIGTTLT 421

QY 121 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGGSVWVETCDSSQKNQKQWLYGD 180
DB 422 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGGSVWVETCDSSQKNQKQWLYGD 480

QY 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGSRQWVFTNEGAILNLKNSLMVDVVAQA 240
DB 481 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGSRQWVFTNEGAILNLKNSLMVDVVAQA 540

QY 241 NPKLRRIIYPATGKPNQWLPV 263
DB 541 NPKLRRIIYPATGKPNQWLPV 563

RESULT 4

US-08-378-761A-77

; Sequence 77, Application US/08378761A.
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 77:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 540 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-77

Query Match 54.9%; Score 777.5; DB 1; Length 540;
Best Local Similarity 55.8%; Pred. No. 1.5e-73;
Matches 145; Conservative 42; Mismatches 72; Indels 1; Gaps 1;

US-08-776-059-35

Query Match 93.1%; Score 1318.5; DB 4; Length 264;
Best Local Similarity 94.3%; Pred. No. 4.4e-131;
Matches 248; Conservative 3; Mismatches 11; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMRVDVDRDDDFHDGNOIQWLWPSKSNNDPNQWTKIKRDGTIRS 60
DB 2 DDVTCASEPTVRIVGRNGMRVDVDRDDDFHDGNOIQWLWPSKSNNDPNQWTKIKRDGTIRS 61

QY 61 NGSCLTYYGTAGVYVMIFDNCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKIGTTLT 120
DB 62 NGSCLTYYGTAGVYVMIFDNCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKIGTTLT 121

QY 121 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGGSVWVETCDSSQKNQKQWLYGD 180
DB 122 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGGSVWVETCDSSQKNQKQWLYGD 180

QY 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGSRQWVFTNEGAILNLKNSLMVDVVAQA 240
DB 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGSRQWVFTNEGAILNLKNSLMVDVVAQA 240

QY 241 NPKLRRIIYPATGKPNQWLPV 263
DB 241 NPKLRRIIYPATGKPNQWLPV 263

RESULT 3

US-08-776-059-35

; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-35

Query Match 93.1%; Score 1318.5; DB 4; Length 264;
Best Local Similarity 94.3%; Pred. No. 4.4e-131;
Matches 248; Conservative 3; Mismatches 11; Indels 1; Gaps 1;

QY 1 DDVTCASEPTVRIVGRNGMRVDVDRDDDFHDGNOIQWLWPSKSNNDPNQWTKIKRDGTIRS 60
DB 2 DDVTCASEPTVRIVGRNGMRVDVDRDDDFHDGNOIQWLWPSKSNNDPNQWTKIKRDGTIRS 61

QY 61 NGSCLTYYGTAGVYVMIFDNCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKIGTTLT 120
DB 62 NGSCLTYYGTAGVYVMIFDNCNTAVREATIWIQWNGTIIINPRSNLVLAASSGKIGTTLT 121

QY 121 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGGSVWVETCDSSQKNQKQWLYGD 180
DB 122 VOTLDYTLGGQWLAGNDTAPREVTIYGRDLCMESNGGSVWVETCDSSQKNQKQWLYGD 180

QY 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGSRQWVFTNEGAILNLKNSLMVDVVAQA 240
DB 181 GSIRPKQNDQCLTSGRDSVSTVINIVSCGASGSRQWVFTNEGAILNLKNSLMVDVVAQA 240

QY 241 NPKLRRIIYPATGKPNQWLPV 263
DB 241 NPKLRRIIYPATGKPNQWLPV 263

RESULT 3

US-08-776-059-35

; Sequence 35, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-35

QY 5 CSASEPTVIRVGRNGMRVDDDDFDHGNQIOLWPKSKNNPNOLWTIKRDTIRNSGSC 64
 DB 282 CMDEPIVIRVGRNGLCVDVTGEEFFDGNPIQLWPKSKNTDWNOLWTLRKDSTIRNSGKC 341
 QY 65 LTTYGYTAGVYVIMFDCNTAVREATIWOIWDNGTIINPRSNLVLAASSGGIKGTTLTWQTL 124
 DB 342 LTISKSPROQVINYNCSTATVATRWQIWDNRTIINPRSLVLAATSGNSGTLVQTN 401
 QY 125 DYTIGQWLAGNDTAPREVTIYGRDLCEMBSNGSVVWETCDSSQKNQGWKALYDGSIR 184
 DB 402 IYAVSQWLPNTNTPQFVTTIVGLYGMCLQANSKGVWLEDC-TSEKAEQWALYADGSIR 460
 QY 185 PKONQDCLTSGRDSVSTVINIVSCGASGSRVWFTNEGAILNKLNSLWVDVAQANPKL 244
 DB 461 PQNRDNCCLTDANIKGTIVVKILSCGPASSQGRWFMFKNDDGTLINLYGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKPNQMWLPVF 264
 DB 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 5
 US-08-485-286-77
 ; Sequence 77, Application US/08485286
 ; Patent No. 5646026
 ; Patent No. 5646026 5646119
 ; GENERAL INFORMATION:
 ; APPLICANT: WALSH, TERENCE A
 ; APPLICANT: HEY, TIMOTHY D
 ; APPLICANT: MORGAN, ALICE ER
 ; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 ; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 ; TITLE OF INVENTION: USING
 ; NUMBER OF SEQUENCES: 81
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: ANDREA T. BORUCKI
 ; STREET: 9330 ZIONSVILLE ROAD
 ; CITY: INDIANAPOLIS
 ; STATE: IN
 ; COUNTRY: US
 ; ZIP: 46268
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/485,286
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/378761
 ; FILING DATE: 26-JAN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BORUCKI, ANDREA T
 ; REGISTRATION NUMBER: 33651
 ; REFERENCE/DOCKET NUMBER: 38272B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (317) 337-4846
 ; INFORMATION FOR SEQ ID NO: 77:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 540 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-485-286-77

Query Match 54.9%; Score 777.5; DB 1; Length 540;
 Best Local Similarity 55.8%; Pred. No. 1.5e-73;
 Matches 145; Conservative 42; Mismatches 72; Indels 1; Gaps 1;

QY 5 CSASEPTVIRVGRNGMRVDDDDFDHGNQIOLWPKSKNNPNOLWTIKRDTIRNSGSC 64
 DB 282 CMDEPIVIRVGRNGLCVDVTGEEFFDGNPIQLWPKSKNTDWNOLWTLRKDSTIRNSGKC 341
 QY 65 LTTYGYTAGVYVIMFDCNTAVREATIWOIWDNGTIINPRSNLVLAASSGGIKGTTLTWQTL 124
 DB 342 LTISKSPROQVINYNCSTATVATRWQIWDNRTIINPRSLVLAATSGNSGTLVQTN 401
 QY 125 DYTIGQWLAGNDTAPREVTIYGRDLCEMBSNGSVVWETCDSSQKNQGWKALYDGSIR 184
 DB 402 IYAVSQWLPNTNTPQFVTTIVGLYGMCLQANSKGVWLEDC-TSEKAEQWALYADGSIR 460
 QY 185 PKONQDCLTSGRDSVSTVINIVSCGASGSRVWFTNEGAILNKLNSLWVDVAQANPKL 244
 DB 461 PQNRDNCCLTDANIKGTIVVKILSCGPASSQGRWFMFKNDDGTLINLYGLVLDVRRSDPSL 520
 QY 245 RRIIYPATGKPNQMWLPVF 264
 DB 521 KQIIVHPFHGNLQIWLPLF 540

RESULT 6
 US-09-512-342-14
 ; Sequence 14, Application US/09512342
 ; Patent No. 6388068
 ; GENERAL INFORMATION:
 ; APPLICANT: SATOH, SHINOBU
 ; APPLICANT: MASUDA, SUSUMU
 ; TITLE OF INVENTION: METHOD FOR PRODUCING FOREIGN POLYPEPTIDE IN PLANT
 ; TITLE OF INVENTION: INTERCELLULAR FLUID
 ; FILE REFERENCE: 081356/0142
 ; CURRENT APPLICATION NUMBER: US/09/512,342
 ; CURRENT FILING DATE: 2000-02-24
 ; NUMBER OF SEQ ID NOS: 38
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 293
 ; TYPE: PRT
 ; ORGANISM: Cucumis sativus
 ; US-09-512-342-14

Query Match 13.1%; Score 185.5; DB 4; Length 293;
 Best Local Similarity 27.4%; Pred. No. 1.7e-11;
 Matches 66; Conservative 35; Mismatches 101; Indels 39; Gaps 10;

QY 14 IVGRNGMRVDDDDFDHGNQIOLW-----PSK-----SNNDPNQLWTIKRDTIR-- 59
 DB 41 LVGRDGLCLEMSP-----WYKPAINFPTLSPCDEKQTLWTIVGDGTRPM 89
 QY 60 SNGSCLTT--YGYTAGVYVIMFPCNTAVREATIWOIWDNGTIINPRSNLVLAASSGIGK 116
 DB 90 NDKFCLAAAEVFGVIN--KAVVSECGKVSNDPNKKWTKQNDGTIALVDSRMVLTGLDY-- 145
 QY 117 TLTVTQTLDTYTLGQWLAGNDTAPREVTIYGRDLCEMBSNGS--VWVETCDSSQKNQGWK 174
 DB 146 --VTLOSNNKYTPSQSWEVETSLNSMVAWIEWLNLCLOSTDDSSHVGLNGCNTNKVQ-R 202
 QY 175 WALYDGSIRPKQNDQCLTSGRDSVSTVINIVSCGASGSRVWFTNEGAILNKLNSL 234
 DB 203 WALYADGTRQHVKNKYCLTSDQDFGRFV--VWSKCEDKPKQORWSLDAKDYTHDPNTDM 260
 QY 235 V 235
 DB 261 V 261

RESULT 7
 US-09-159-106-15
 ; Sequence 15, Application US/09159106
 ; Patent No. 6284509
 ; GENERAL INFORMATION:
 ; APPLICANT: Ferrer, Pau
 ; APPLICANT: Diers, Ivan

APPLICANT: Halkier, Torben
APPLICANT: Hedegaard, Lisbeth
TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
TITLE OF INVENTION: Activity
FILE REFERENCE: 4693.204-US
CURRENT APPLICATION NUMBER: US/09/159,106
CURRENT FILING DATE: 1998-09-23
EARLIER APPLICATION NUMBER: 0427/96
EARLIER FILING DATE: 1996-12-04
EARLIER APPLICATION NUMBER: 0885/96
EARLIER FILING DATE: 1996-08-23
EARLIER APPLICATION NUMBER: PCT/DK97/00160
EARLIER FILING DATE: 1997-04-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Fast-SEQ for Windows Version 3.0
SEQ ID NO 15
LENGTH: 132
TYPE: PRT
ORGANISM: Oerskovia xanthineolytica
US-09-159-106-15

Query Match 9.6%; Score 136; DB 4; Length 132;
Best Local Similarity 36.3%; Pred. No. 8.8e-07;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;

Qy 18 NGMVDVDDDFHGNQIQWLWPKSKNNPDNQLWTIKRDGTIRNSGSLTTY--GYTAGVY 75
Db 14 NGMVDVFPWADPTDGNFQVITVTCGN--AAQTWRGSDGTVRALGKCLDVRDGSSTRGAA 71

Qy 76 VMIFDCNTAVREATIWIW--DNGT--IINPRSNLVLAASSGI---KGTTLTVTQTLDTYL 128
Db 72 VQVWTCN-----GTGAQKWAYDAGSKALRNPQSGLCILDATGGAPLRDQRLQWTGTCNGTT 126

Qy 129 GQGW 132
Db 127 AQOW 130

RESULT 8
US-09-159-106-11
Sequence 11, Application US/09159106
Patent No. 6284509
GENERAL INFORMATION:
APPLICANT: Ferrer, Pau
APPLICANT: Diers, Ivan
APPLICANT: Halkier, Torben
APPLICANT: Hedegaard, Lisbeth
TITLE OF INVENTION: An Enzyme With -1,3-Glucanase
TITLE OF INVENTION: Activity
FILE REFERENCE: 4693.204-US
CURRENT APPLICATION NUMBER: US/09/159,106
CURRENT FILING DATE: 1998-09-23
EARLIER APPLICATION NUMBER: 0427/96
EARLIER FILING DATE: 1996-12-04
EARLIER APPLICATION NUMBER: 0885/96
EARLIER FILING DATE: 1996-08-23
EARLIER APPLICATION NUMBER: PCT/DK97/00160
EARLIER FILING DATE: 1997-04-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Fast-SEQ for Windows Version 3.0
SEQ ID NO 11
LENGTH: 435
TYPE: PRT
ORGANISM: Oerskovia xanthineolytica
US-09-159-106-11

Query Match 9.6%; Score 136; DB 4; Length 435;
Best Local Similarity 36.3%; Pred. No. 5.1e-06;
Matches 45; Conservative 11; Mismatches 52; Indels 16; Gaps 6;

Qy 18 NGMVDVDDDFHGNQIQWLWPKSKNNPDNQLWTIKRDGTIRNSGSLTTY--GYTAGVY 75
Db 317 NGMVDVFPWADPTDGNFQVITVTCGN--AAQTWRGSDGTVRALGKCLDVRDGSSTRGAA 374

Qy 76 VMIFDCNTAVREATIWIW--DNGT--IINPRSNLVLAASSGI---KGTTLTVTQTLDTYL 128
Db 375 VQVWTCN-----GTGAQKWAYDAGSKALRNPQSGLCILDATGGAPLRDQRLQWTGTCNGTT 429

Qy 129 GQGW 132
Db 430 AQOW 433

RESULT 9
US-08-468-812-5
Sequence 5, Application US/08468812
Patent No. 5935836
GENERAL INFORMATION:
APPLICANT: Vehmaanper, Jari
APPLICANT: Mntyl, Arja
APPLICANT: Fagerstr m, Richard
APPLICANT: Lantto, Raija
APPLICANT: Paloheimo, Marja
APPLICANT: Suominen, Pirkko
APPLICANT: Lahtinen, Tarja
APPLICANT: Kristo, Paula
TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
TITLE OF INVENTION: of Use
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,812
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/332,412
FILING DATE: 31-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/282,001
FILING DATE: 29-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Bugaisky, Larry B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 1050.0340002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
POSITION IN GENOME:
CHROMOSOME/SEGMENT: AM50
US-08-468-812-5

Query Match 8.7%; Score 122.5; DB 2; Length 480;
Best Local Similarity 32.4%; Pred. No. 0.00016;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

Qy 22 VDVDDDFHGNQIQWLWPKSKNNPDNQLWTIKRDGTIRNSGSLTTYGYTAGVYVIMFD 80

Db 379 IDVNGNTADGTQVLYDCHSGS--NQOWTYTSSGEFRIFGNKCLDAGGSSNGAVVQIYS 436
QY 81 CNTAVREATIWOIWDNGTIIINPRSNLVLAASSGKIGTTLTVQ 122
Db 437 CWGANQK--WELRADGTIVGVQSGLCGLDVGCGTGNGTRLQ 476

RESULT 10
US-08-590-563-5
; Sequence 5, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl , Arja
; APPLICANT: Vehmaanper , Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: AM50
US-08-590-563-5
Query Match 8.7%; Score 122.5; DB 4; Length 480;
Best Local Similarity 32.4%; Pred. No. 0.00016;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

QY 22 VDVRDDFDHGNQIQLWPSKSNNDPNQLTKRDGTIRNSGS-CLTYGYTAGVYVWIFD 80

Db 379 IDVNGNTADGTQVLYDCHSGS--NQOWTYTSSGEFRIFGNKCLDAGGSSNGAVVQIYS 436
QY 81 CNTAVREATIWOIWDNGTIIINPRSNLVLAASSGKIGTTLTVQ 122
Db 437 CWGANQK--WELRADGTIVGVQSGLCGLDVGCGTGNGTRLQ 476

RESULT 11
US-08-468-812-8
; Sequence 8, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper , Jari
; APPLICANT: M ntyl , Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugalsky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
US-08-468-812-8
Query Match 8.7%; Score 122.5; DB 2; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.00016;
Matches 40; Conservative 20; Mismatches 61; Indels 19; Gaps 6;

QY 7 ASEPPXXXXXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQLWDCHSGT--NQOWAATDA 410
Db 354 SSEPPXXXXXXXXXADGGQIKGVG-SGRCLDVPDASTSDGTQLQLWDCHSGT--NQOWAATDA 410

QY 56 GTIRNSG-SCLTYGYTAGVYVIMFDCNTAVREATIWIQWNGTIINPRSNLVLA--SS 112
Db 411 GELRVYGDKCLDAAGTSNGSKVQIYSCWGDNQK--WRLNSDGSVVQSGLCCLDAVGNG 468

QY 113 GIKGTTLTVTQTLDTLTLGQGW 132
Db 469 TANGTLIQLYTCNSNGSNQRW 488

RESULT 12
US-08-590-563-8
; Sequence 8, Application US/08590563
; Patent No. 6300114
; GENERAL INFORMATION:
; APPLICANT: M ntyl, Arja
; APPLICANT: Vehmaanper, Jari
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; TITLE OF INVENTION: Production and Secretion of Proteins of
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W. Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,563
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Lawrence B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: M64551
US-08-590-563-8

Query Match 8.7%; Score 122.5; DB 4; Length 491;
Best Local Similarity 28.6%; Pred. No. 0.00016;
Matches 40; Conservative 20; Mismatches 61; Indels 19; Gaps 6;

QY 7 ASEP-----TVRIVGRNGMRVDVDDDFHDGNOIQWLWPSKSNNDPNQLWTIKRD 55
Db 354 SSEPPXXXXXADGGQIKGVG-SGRCLDVPDASTSGDTQLQWDCHSCT--NQQWAATDA 410

QY 56 GTIRNSG-SCLTYGYTAGVYVIMFDCNTAVREATIWIQWNGTIINPRSNLVLA--SS 112
Db 411 GELRVYGDKCLDAAGTSNGSKVQIYSCWGDNQK--WRLNSDGSVVQSGLCCLDAVGNG 468

QY 113 GIKGTTLTVTQTLDTLTLGQGW 132
Db 469 TANGTLIQLYTCNSNGSNQRW 488

RESULT 13
US-08-468-812-4
; Sequence 4, Application US/08468812
; Patent No. 5935836
; GENERAL INFORMATION:
; APPLICANT: Vehmaanper, Jari
; APPLICANT: M ntyl, Arja
; APPLICANT: Fagerstr m, Richard
; APPLICANT: Lantto, Raija
; APPLICANT: Paloheimo, Marja
; APPLICANT: Suominen, Pirkko
; APPLICANT: Lahtinen, Tarja
; APPLICANT: Kristo, Paula
; TITLE OF INVENTION: Actinomadura Xylanase Sequences and Methods
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLSTEIN & FOX
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,812
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/332,412
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/282,001
; FILING DATE: 29-JUL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bugaisky, Larry B.
; REGISTRATION NUMBER: 35,086
; REFERENCE/DOCKET NUMBER: 1050.0340002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-468-812-4

Query Match 8.7%; Score 122.5; DB 2; Length 492;
Best Local Similarity 32.4%; Pred. No. 0.00016;
Matches 33; Conservative 16; Mismatches 48; Indels 5; Gaps 3;

Db 437 CWGGANQK--WELRADGTIVGVSGLCLDVAVGGTGNGTRLQ 476

Search completed: March 22, 2003, 09:59:48
Job time : 10.1481 secs

GenCore version 5.1.4 p5_4578
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OM protein - protein search, using sw model

Run on: March 22, 2003, 10:30:16 ; Search time 8.99525 Seconds
(without alignments)
1521.507 Million cell updates/sec

Title: US-09-601-667C-38

Perfect score: 1299

Sequence: 1 YERLRVTHQTGDEYFRP.....SVIASLAIMLFVCGERPSS 256

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB_PEP.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB_PEP.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB_PEP.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB_PEP.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB_PEP.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB_PEP.*
7: /cgn2_6/ptodata/2/pubpaa/PCTU5_PUBCOMB_PEP.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB_PEP.*
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12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB_PEP.*
13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB_PEP.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB_PEP.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1174	90.4	252	10 US-09-347-064-8	Sequence 8, Appli
2	1170	90.1	252	10 US-09-347-064-2	Sequence 2, Appli
3	329	25.3	247	9 US-09-792-793A-39	Sequence 39, Appli
4	303.5	23.4	247	9 US-09-792-793A-34	Sequence 34, Appli
5	281.5	21.7	251	10 US-09-765-527-247	Sequence 247, App
6	278.5	21.4	293	10 US-09-765-527-259	Sequence 259, App
7	278.5	21.4	309	10 US-09-765-527-253	Sequence 253, App
8	278.5	21.4	332	10 US-09-765-527-251	Sequence 251, App
9	247.5	19.1	250	9 US-09-792-793A-36	Sequence 36, Appli
10	185.5	14.3	275	9 US-09-792-793A-35	Sequence 35, Appli
11	185	14.2	254	9 US-09-792-793A-85	Sequence 85, Appli
12	185	14.2	327	9 US-09-792-793A-79	Sequence 79, Appli
13	185	14.2	330	9 US-09-792-793A-82	Sequence 82, Appli
14	185	14.2	332	9 US-09-792-793A-73	Sequence 73, Appli
15	185	14.2	332	9 US-09-792-793A-76	Sequence 76, Appli
16	183	14.1	263	10 US-09-978-274A-4	Sequence 4, Appli
17	183	14.1	314	10 US-09-978-274A-2	Sequence 2, Appli
18	124	9.5	323	9 US-09-792-793A-80	Sequence 80, Appli
19	124	9.5	325	9 US-09-792-793A-81	Sequence 81, Appli

20	123	9.5	110	10 US-09-978-274A-8	Sequence 8, Appli
21	122.5	9.4	247	9 US-09-792-793A-83	Sequence 83, Appli
22	122.5	9.4	249	9 US-09-792-793A-84	Sequence 84, Appli
23	122.5	9.4	293	9 US-09-792-793A-37	Sequence 37, Appli
24	122.5	9.4	315	10 US-09-334-477-2	Sequence 22, Appli
25	122.5	9.4	320	9 US-09-792-793A-77	Sequence 77, Appli
26	122.5	9.4	322	9 US-09-792-793A-78	Sequence 78, Appli
27	122.5	9.4	323	10 US-09-334-477-21	Sequence 21, Appli
28	122.5	9.4	325	9 US-09-792-793A-71	Sequence 71, Appli
29	122.5	9.4	325	9 US-09-792-793A-74	Sequence 74, Appli
30	122.5	9.4	326	10 US-09-334-477-37	Sequence 37, Appli
31	122.5	9.4	327	9 US-09-792-793A-72	Sequence 72, Appli
32	122.5	9.4	327	9 US-09-792-793A-75	Sequence 75, Appli
33	122.5	9.4	690	10 US-09-334-477-47	Sequence 47, Appli
34	122.5	9.4	708	10 US-09-334-477-33	Sequence 33, Appli
35	117	9.0	318	10 US-09-334-477-6	Sequence 6, Appli
36	117	9.0	326	10 US-09-334-477-25	Sequence 25, Appli
37	116.5	9.0	319	9 US-09-792-793A-38	Sequence 38, Appli
38	116.5	9.0	319	9 US-09-870-759-28	Sequence 28, Appli
39	116	8.9	694	10 US-09-334-477-49	Sequence 49, Appli
40	115	8.9	711	10 US-09-334-477-35	Sequence 35, Appli
41	113	8.7	329	10 US-09-334-477-39	Sequence 39, Appli
42	93	7.2	400	10 US-09-895-211-4	Sequence 4, Appli
43	93	7.2	400	10 US-08-895-211-6	Sequence 6, Appli
44	87	6.7	394	10 US-09-993-844-7	Sequence 7, Appli
45	87	6.7	408	10 US-09-895-211-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1

US-09-347-064-8
; Sequence 8, Application US/09347064A
; Patent No. US20020045208A1

; GENERAL INFORMATION:
; APPLICANT: Eck, Jurgen

; APPLICANT: Schmidt, Arno

; APPLICANT: Zinke, Holger

; TITLE OF INVENTION: Recombinant Fusion Proteins Based on
; TITLE OF INVENTION: Ribosome-Inactivating Proteins of the mistletoe Viscum

; TITLE OF INVENTION: album

; FILE REFERENCE: 09282-5

; CURRENT APPLICATION NUMBER: US/09/347,064A

; CURRENT FILING DATE: 1999-07-02

; EARLIER APPLICATION NUMBER: PCT/EP98/00009

; EARLIER FILING DATE: 1998-01-02

; EARLIER APPLICATION NUMBER: EP 97 10 0012.0

; EARLIER FILING DATE: 1997-01-02

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: Patent In Ver. 2.1

; SEQ ID NO 8

; LENGTH: 252

; TYPE: PRT

; ORGANISM: Viscum album

US-09-347-064-8

Query Match 90.4%; Score 1174; DB 10; Length 252;

Best Local Similarity 91.7%; Pred. No. 2.1e-110;

Matches 233; Conservative 7; Mismatches 12; Indels 2; Gaps 1;

QY 1 YERLRVTHQTGDEYFRPFTLLRDYVSSGFSFNEIPLLRQSTIPVSDAORFVLVELTN 60

Db 1 YERLRVTHQTGDEYFRPFTLLRDYVSSGFSFNEIPLLRQSTIPVSDAORFVLVELTN 60

QY 61 QGQDSITAAIDVTWYVAYVAGQSYFLRDAPRGAETHLFTGTTRRSSLPTFGSYTDL 120

Db 61 QGQDSITAAIDVTWYVAYVAGQSYFLRDAPRGAETHLFTGTTRRSSLPTFGSYTDL 118

QY 121 ERYAGHRDQIFLGIEQLIQSVSALRYPGSGTQAQARSILILIQMISEAARNFPLWRQ 180

Db 119 ERYAGHRDQIFLGIDQLIQSVTALRFPGSGTQAQARSILILIQMISEAARNFPLWRQ 178

Db 235 SNIALLL 241
:::|::|

RESULT 5

US-09-765-527-247
; Sequence 247, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 247:
; LENGTH: 251 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 247:
US-09-765-527-247

Query Match 21.7%; Score 281.5; DB 10; Length 251;
Best Local Similarity 33.7%; Pred. No. 1.3e-20;
Matches 85; Conservative 37; Mismatches 109; Indels 21; Gaps 7;
Qy 8 VTHQTTGDEYFRFTLLRDY---VSSGSFSENEIPLLRQSTIPVSDAQRFLVLTNQGD 64
Db 5 VSPSTKGATYITYVNFNLVKLPKGNHGIPLLRKCC--DDPGKCFVLVLSNDNGQ 62
Qy 65 SITAAIDVTNAYVAYQAGDSYFLRDPARGAETHLFTGTTDRSSLPFTGSDTLERYA 124
Db 63 LAETAIIDVTSVVVGVQVRNRSYFFKDPADAAEGLFKNTIKTR--LHFGGSYPSLEGEK 120
Qy 125 GHRDQIPLGIEQL---IQSVSALRYPGGSTRQAQRSLILQIMISEAARF----NPILWR 177
Db 121 AYRETTDLGIEPLRIGIKKLDENAIIDNYKPTETIASLLVVIQMVSEAAARFTFIENQIRNN 180
Qy 178 YRQDINGSFPLDMYMLELTSWGQOSTOVQHS--TDGVFNPPFLAISTGNFVTLNSVR 236
Db 191 FQQRIR-----PANNISLENKWKGLSFQIRTSANGMFSEAVELERANGKYYVTVAD 234
Qy 237 SVIASLAIMLFV 248
Db 235 QVKPKIALLKVF 246
:::|::|

RESULT 6

US-09-765-527-259
; Sequence 259, Application US/09765527
; Patent No. US20020006638A1
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,527
; FILING DATE: 18-Jan-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 259:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 293 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 259:
US-09-765-527-259

Query Match 21.4%; Score 278.5; DB 10; Length 293;
Best Local Similarity 33.3%; Pred. No. 3.3e-20;
Matches 84; Conservative 38; Mismatches 109; Indels 21; Gaps 7;
Qy 8 VTHQTTGDEYFRFTLLRDY---VSSGSFSENEIPLLRQSTIPVSDAQRFLVLTNQGD 64
Db 27 VSFSTKGATYITYVNFNLVKLPKGNHGIPLLRKCC--DDPGKCFVLVLSNDNGQ 84
Qy 65 SITAAIDVTNAYVAYQAGDSYFLRDPARGAETHLFTGTTDRSSLPFTGSDTLERYA 124
Db 85 LAETAIIDVTSVVVGVQVRNRSYFFKDPADAAEGLFKNTIKTR--LHFGGTYSLEGEK 142
Qy 125 GHRDQIPLGIEQL---IQSVSALRYPGGSTRQAQRSLILQIMISEAARF----NPILWR 177
Db 143 AYRETTDLGIEPLRIGIKKLDENAIIDNYKPTETIASLLVVIQMVSEAAARFTFIENQIRNN 202
Qy 178 YRQDINGSFPLDMYMLELTSWGQOSTOVQHS--TDGVFNPPFLAISTGNFVTLNSVR 236
Db 203 FQQRIR-----PANNISLENKWKGLSFQIRTSANGMFSEAVELERANGKYYVTVAD 256
Qy 237 SVIASLAIMLFV 248
Db 257 QVKPKIALLKVF 268
:::|::|

RESULT 7
US-09-765-527-253
; Sequence 253, Application US/09765527
; Patent No. US20020006638A1

GENERAL INFORMATION:

APPLICANT: Better, Marc D.
TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/765,527
FILING DATE: 18-Jan-2001
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/621,803
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:

NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 253:

SEQUENCE CHARACTERISTICS:
LENGTH: 309 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 253:
US-09-765-527-253

Query Match 21.4%; Score 278.5; DB 10; Length 309;
Best Local Similarity 33.3%; Pred. No. 3.5e-20;
Matches 84; Conservative 38; Mismatches 109; Indels 21; Gaps 7;

QY 8 VTHQTGDEYFRFTLLRDY---VSSGSFSNEIPLLRSTIPVSDAQRFLVLTNQGD 64

Db 27 VSFSTKGATYITYVNFLELVKLPKPNESHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84

QY 65 SITAAIDVTNAVYVAYQAGDOSYFLRDAPRGAETHLFTGTTDRSSLPFTGSGYTDLERYA 124

Db 85 LAETAIIDVTSVYVVGQYVRNRSYFFKADPAAYEGFLFKNTIKTR--LHFGGTYPSELEGK 142

QY 125 GHRDQIPLGIEQL---IQSVSALRYPGGSTRQAARSILILIQMISEAARF----NPILWR 177

Db 143 AYRETTDLGIEPLRIGIKKLDENAIIDNYKPTIASLLVLIQVSEAAARFTFIENQIRNN 202

QY 178 YRQDINGSGLPDMYMLETSWGQSTQVQHS--TDGVFNPPRLAISTGNFVTLNVR 236

Db 203 FQQRIR-----PANNTISLENKWKGLSFQIRTSANGMFSEAVELELANGKKYYVTAVD 256

QY 237 SVIASLAIMLFV 248

Db 257 QVKPKIALLKVF 268

RESULT 8

US-09-765-527-251

Sequence 251, Application US/09765527
Patent No. US20020006638A1
GENERAL INFORMATION:

APPLICANT: Better, Marc D.
TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides

NUMBER OF SEQUENCES: 265

CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/765,527
FILING DATE: 18-Jan-2001
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/621,803
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:

NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 251:

SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 251:
US-09-765-527-251

Query Match 21.4%; Score 278.5; DB 10; Length 332;
Best Local Similarity 33.3%; Pred. No. 3.9e-20;
Matches 84; Conservative 38; Mismatches 109; Indels 21; Gaps 7;

QY 8 VTHQTGDEYFRFTLLRDY---VSSGSFSNEIPLLRSTIPVSDAQRFLVLTNQGD 64

Db 27 VSFSTKGATYITYVNFLELVKLPKPNESHGIPLLRKKC--DDPGKCFVLVALSNDNGQ 84

QY 65 SITAAIDVTNAVYVAYQAGDOSYFLRDAPRGAETHLFTGTTDRSSLPFTGSGYTDLERYA 124

Db 85 LAETAIIDVTSVYVVGQYVRNRSYFFKADPAAYEGFLFKNTIKTR--LHFGGTYPSELEGK 142

QY 125 GHRDQIPLGIEQL---IQSVSALRYPGGSTRQAARSILILIQMISEAARF----NPILWR 177

Db 143 AYRETTDLGIEPLRIGIKKLDENAIIDNYKPTIASLLVLIQVSEAAARFTFIENQIRNN 202

QY 178 YRQDINGSGLPDMYMLETSWGQSTQVQHS--TDGVFNPPRLAISTGNFVTLNVR 236

Db 203 FQQRIR-----PANNTISLENKWKGLSFQIRTSANGMFSEAVELELANGKKYYVTAVD 256

QY 237 SVIASLAIMLFV 248

Db 257 QVKPKIALLKVF 268

RESULT 9

US-09-792-793A-36

Sequence 36, Application US/09792793A
Patent No. US20020168370A1
GENERAL INFORMATION:

APPLICANT: McDonald, John R.
APPLICANT: Coggin, Philip
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND OTHER INFLAMMATORY CONDITIONS AND DISORDERS
FILE REFERENCE: 25020-601D
CURRENT APPLICATION NUMBER: US/09/792,793A
CURRENT FILING DATE: 2001-02-22

Query Match 19.1%; Score 247.5; DB 9; Length 250;
Best Local Similarity 30.8%; Pred. No. 3.4e-17;
Matches 78; Conservative 38; Mismatches 106; Indels 31; Gaps 8;
QY 6 LRVTHQTTGDEYFRITLLRDYVSSGSPNEIPLLRQSTIPVSDAQRVLVELNQODS 65
Db 10 LDNNPTT---YLSFTIRTKVADTEQCTI-----QKISKTFQRYSDIDLVSTQK 61
QY 66 ITAAIDVTNAVYVAY-----QAGDSQSYFLRDAPRGAEHLFTGTT-RDRSSLPFTGSDYDL 120
Db 62 ITLADIMADLYVLGSDYDIANNKGRAFFKDVTEAVANNFFPGATGTNRKILFTFGSYGDL 121
QY 121 ERYAGHRDQIPGIEBQIQSVSALRYPGGSTRAQARSILILIQMISEAARFNPILMRYRQ 180
Db 122 EXNGGLRKNPDLGIPRELSIYVNIYKAGDVKKQAKFLLAIQMVSEARF-----KYIS 176
QY 181 DINSGESF---LPDMVMELETSWGQQSTQVOHSTDG-----VFNNPRLAISTGNF 229
Db 177 DKIPSEKYEVEVTVDYMTALENNWAKLSTAVYNSKPSFTTTATKCOLATSP--VTISPWIF 234
QY 230 VILSNVRSVIASL 242
Db 235 KTVEBIKLVNGLL 247

RESULT 10
US-09-792-793A-35
; Sequence 35, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggin, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 35
; LENGTH: 275
; TYPE: PRT
; ORGANISM: Saponaria officinalis
US-09-792-793A-35

Query Match 14.3%; Score 185.5; DB 9; Length 275;
Best Local Similarity 26.5%; Pred. No. 6.8e-11;
Matches 73; Conservative 51; Mismatches 106; Indels 45; Gaps 13;
QY 4 LRLRVTHQTTGDEYFRITLLRDYVSSGSPNEIPLLRQ-----STIPVSDAQRVLVEL 58
Db 4 ITLDLVNPTAG-QYSSFVDKIRNNVD-----PNLKYGGTDIAVIGPPSKEKFLRINF 55
QY 59 TNOQDSITAAIDVTNAVYVAYQAGD-----QSYFLRDAPRGAE--THLF-TGTTDRSSL 111
Db 56 -QSSRGTVSLGLKRDNLVYVAYLAMDTNNVNRAYYFRSEITSAESTALPPEATANQKAL 114
QY 112 PFTGSYTDLERYA-----GHRDQIPGIEBQIQSVSALRYPGGSTRAQARSILILIQMI 165
Db 115 EYTEDYQSIEKNAQITQGDQSRKELGIDLLSTSMVAVNKKARVVKDEARFLIALQMT 174
QY 166 SEAAARFNPILMRYRQDI---NSGESFIPDMVMELETSWGQQSTQVO--HSTDGVFNPNPF 221
Db 175 AEAARF-----RYIQLNVKRNKFNKFNSENKVIQFEVNNKKISTAIYGDKNGVFNKDY 229

QY 222 LAISTGNFVTLNVRSVIASLAIMLFCVGERPSS 256
Db 230 FG-----FGKVRQV-KOLQWGLMLYLKGRKSS 255
RESULT 11
US-09-792-793A-85
; Sequence 85, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggin, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 85
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Methionine-Saporin fusion prot
US-09-792-793A-85

Query Match 14.2%; Score 185; DB 9; Length 254;
Best Local Similarity 27.2%; Pred. No. 6.9e-11;
Matches 65; Conservative 48; Mismatches 90; Indels 36; Gaps 11;
QY 4 LRLRVTHQTTGDEYFRITLLRDYVSSGSPNEIPLLRQ-----STIPVSDAQRVLVEL 58
Db 5 ITLDLVNPTAG-QYSSFVDKIRNNVD-----PNLKYGGTDIAVIGPPSKEKFLRINF 56
QY 59 TNOQDSITAAIDVTNAVYVAYQAGD-----QSYFLRDAPRGAE--THLF-TGTTDRSSL 111
Db 57 -QSSRGTVSLGLKRDNLVYVAYLAMDTNNVNRAYYFRSEITSAESTALPPEATANQKAL 115
QY 112 PFTGSYTDLERYA-----GHRDQIPGIEBQIQSVSALRYPGGSTRAQARSILILIQMI 165
Db 116 EYTEDYQSIEKNAQITQGDQSRKELGIDLLSTSMVAVNKKARVVKDEARFLIALQMT 175
QY 166 SEAAARFNPILMRYRQDI---NSGESFIPDMVMELETSWGQQSTQVO--HSTDGVFNPNPF 220
Db 176 AEAARF-----RYIQLNVKRNKFNKFNSENKVIQFEVNNKKISTAIYGDKNGVFNKDY 229

RESULT 12
US-09-792-793A-79
; Sequence 79, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggin, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 79
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
US-09-792-793A-79

Query Match 14.2%; Score 185; DB 9; Length 327;
Best Local Similarity 27.2%; Pred. No. 9.8e-11;

Matches 65; Conservative 48; Mismatches 90; Indels 36; Gaps 11;

QY	4	LRLRVHTQTTGDEYFRITILLRDYVSSGSPNIEPLL	Q-----STIPVSDAQRFVLVL	58
Db	78	ITLDLVNPTAG-QYSSFDVKIRNVKD-----	PNLYKGGTDIAVIGPSPKEKFLRNF	129
QY	59	TNQCDSITAAIDVTNAYVAYQAGD-----	QSYFLRDPARGAE-THLF-TGTRDRSSL	111
Db	130	-QSGRGTVSLGKRDNLVYVAYLAMONTNVNRY	FRSEITSAESTALPFEATTANQAL	188
QY	112	PFTGSYTDLRYA-----GHRQDPIGLIEQL	QTSVSALRYPCGSTPAQARSILLIOMI	165
Db	189	EYTEDYQSIEKNAQITQDOSRKELGLIGDIL	STSMEANVKARVYKDSARELLIAOMT	248

```
Qy      166   SEAARENPIWYRQDI--NSGSGFUDMYMLETSMGQQSTQVQHSTDGVENPNPF    220
          :|||||           |---|            :::||---|        :|||||
Db      249   AEAARE-----RYIQNLVIKPPNKNSENKVQTGFVNWKKTISTAIYGDAKNGVFNKDQ    302
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```

RESULT 13
US-09-792-793A-82
; Sequence 82, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Coggins, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D
; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 82
; LENGTH: 330
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin fusion protein
; OTHER INFORMATION: EOTAXIN-AM-SAPORIN
US-09-792-793A-82

```

Query Match 14.2%; Score 185; DB 9; Length 330;
Best Local Similarity 27.2%; Pred. No. 9.9e-11;
Matches 65; Conservative 48; Mismatches 90; Indels 36; Gaps 11;

Qy	4	LRURVTHQTGDBEYFRITLLRDYVSSGFSNEIPLLRQ-----STIPVSDAQRFVLVVEL	58
Db	81	ITLIDLNVNPTAG-QYSSFVDKIRNVKD-----PNLKYGGTDIAVIGPSPKEKFLRNF	132
Qy	59	TWQGQDSITAAIDVTWYVYVVOAGB-----QSYFLRDAPRGAETHLF-TGTTTRDRSSL	111
Db	133	-OSSRGTVSLGLKRDNLVYVVALMDNTNVNRAYYFRSEITSAESTALFPPEATTAQKAL	191
Qy	112	PTFGSYTDLERYA-----GHRDQPLGIEQLIQSVVALRYPGGSTRAQARSILILQMI	165
Db	192	EYTDYQSLKNAQITQGGQSRKELGGLDLSSTMEAVNKVKARVVKQDEARFLITAIQMT	251

```

QY . 166 5EAAAFNPILWRYQDI---NSGESFLPDMYMLELETSNGQOSTQV.-HSTDGVFNPF 220
      :|||||      |:::      |:::      |:::      |:::      |:::      |:::
      :|||||      |:::      |:::      |:::      |:::      |:::      |:::
Db 252 ABAARF-----RYQNLVKNFNPKNFSEKNVQFVFNWKKIISTAIYGDARKNGVKNQY 305

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RESULT 14
US-09-792-793A-73
; Sequence 73, Application US/09792793A
; Patent No. US20020168370A1
; GENERAL INFORMATION:
; APPLICANT: McDonald, John R.
; APPLICANT: Cogins, Philip
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
; TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
; FILE REFERENCE: 25020-601D

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; CURRENT APPLICATION NUMBER: US/09/792,793A
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 73
; LENGTH: 332

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; LENGTH: 332
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description
; OTHER INFORMATION: MCPL-AM-SAL
US-09-792-793A-73

```

Query Match 14.2%; Score 185; DB 9; Length 332;
Best Local Similarity 27.2%; Pred. No. 1e-10;
Matches 65; Conservative 48; Mismatches 90; Indels

Oy	4	LRLRVTHOTTGDEYFRFITLLRDVYSSGSFSNEIPLLRQ-----STTPVSDAORFVLIVEL	58
Dd	83	ITLDLVNPTAG-QYSSPVDKIRNNVKD-----PNLKYGGTDIAVGPPSKKEFLRINF	134
Oy	59	TNQGDOSTAALDVTNAAVVAYOAGD-----QSYFLRADPRGAE-THLF-TGTTRRSSL	111
Dd	135	-OSSRGTVSLGKRNDLYVWAYLAMDTNVNRAYYFRSEITSASTALFPETATNOKAL	193
Oy	112	PFTGSYTDLERYA-----CHRDQIPLGIEQLIQSVSALRYPGGSTRAQAORSILILIOMI	165
Dd	194	EYTEDYQSIEKNAQITQGDSRKELGLIGDLLSTSWEAVNKARVVKDEARFLLIIAQMT	253
Oy	166	SEARFNPILRVRQDI---NGSGESFLPMYNMLETSGWOOSTOVO-HSTDGVFNPNPF	220
Dd	254	AEARF-----RTQNLIKNVPNFNSENKVIOPEVNWKIKISTAIYGDAKGAVENKDY	307

RESULT 15

US-09-792-793A-76
; Sequence 76, Application US/09792793A
; Patent No. US20020168370A1

```

GENERAL INFORMATION:
APPLICANT: McDonald, John R.
INVENTOR: Coggin, Philip
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND DISORDERS
FILE REFERENCE: 25020-601D
CURRENT APPLICATION NUMBER: US/09/792,793A
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 93
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 76
LENGTH: 332
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Chemokine-toxin Fusion Protein
OTHER INFORMATION: MCP3-AM-SAPORIN
US-09-792-793A-76

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Query Match	14.2%;	Score 185;	DB 9;	Length 332;
Best Local Similarity	27.2%;	Pred. No. 1e-10;		

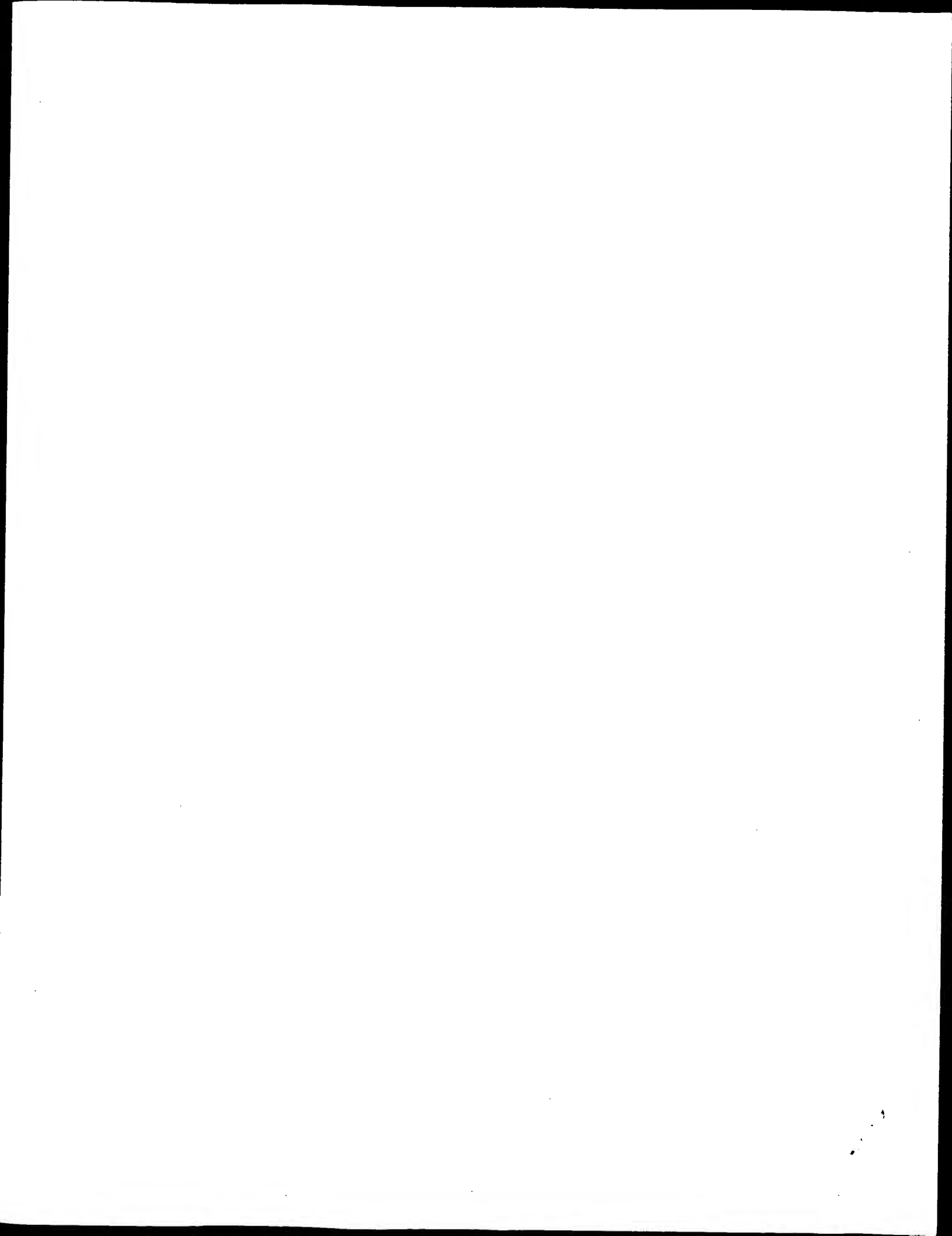
[illegible]

us-09-601-667c-38.rapb

Sat Mar 22 10:41:24 2003

Oy 166 SEARFPILWRYODI---NSGESELPDMYMLELETSWGQOSTOVQ-HSTDGVFNNPF 220
Db 254 AEAARF-----RYTONLVIRKFNKFNSENKVIQFEVNWKKISTAIYCDANGVFNKDY 307

Search completed: March 22, 2003, 10:37:39
Job time : 9.99525 secs



RESULT 2

US-08-776-059-31
; Sequence 31, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776, 059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 31
; LENGTH: 253
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-31

Query Match 90.4%; Score 1174; DB 4; Length 253;
Best Local Similarity 91.7%; Pred. No. 3.6e-115; Indels 2; Gaps 1;
Matches 233; Conservative 7; Mismatches 12;

Qy 1 YERLRVTHQTTGDEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTN 60
Db 2 YERLRVTHQTTGDEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTN 61

Qy 61 QGDSITAAIDVTNLYVAYVAYQAGDSYFLRDAPRGAETHLFTGTTDRSSLPFTGSYTDL 120
Db 62 QGDSITAAIDVTNLYVAYVAYQAGDSYFLRDAPRGAETHLFTGTT--RSSLPFGNSYFDL 119

Qy 121 ERYAGHRDQIPLGTGEOIQSVSALRYPGGSTRQAQARSILILIQMISEAARFNPLRWYRQ 180
Db 120 ERYAGHRDQIPLGIDLIQSVTALRFPGGSTRQAQARSILILIQMISEAARFNPLRWYRQ 179

Qy 181 DINGSEFLPDYMLLETSGQSTQVQHSYTDGVNPPFLRAISTGNFVTLNRSVIA 240
Db 180 YNSGASFLPDYMLLETSGQSTQVQHSYTDGVNPPFLRAISTGNFVTLNRSVIA 239

Qy 241 SLAIMLFCVGERPS 254
Db 240 SLAIMLFCVGERPS 253

RESULT 3

US-08-776-059-39
; Sequence 39, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: ECK, Jurgen
; APPLICANT: BAUR, Axel
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776, 059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Viscum album

US-08-776-059-39

Query Match 83.8%; Score 1089; DB 4; Length 235;
Best Local Similarity 92.0%; Pred. No. 2.6e-106; Indels 2; Gaps 1;
Matches 218; Conservative 5; Mismatches 12;

Qy 18 FRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTNQGDSTAAIDVTNLYV 77
Db 1 FRFITLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTNQGDSTAAIDVTNLYV 60

Qy 78 VAYQAGDSYFLRDAPRGAETHLFTGTTDRSSLPFTGSYTDLERYAGHRDQIPLGIEOL 137
Db 61 VAYQAGDSYFLRDAPRGAETHLFTGTT--RSSLPFGNSYDPLERYAGHRDQIPLGIDQL 118

Qy 138 IQSVSALRYPGGSTRQAQARSILILIQMISEAARFNPLRWYRQDINSGESFLPDYMLLEL 197
Db 119 IQSVTALRFPGGSTRQAQARSILILIQMISEAARFNPLRWYRQINSASFLPDYMLLEL 178

Qy 198 ETSWQSQSTQVQHSYTDGVNPPFLRAISTGNFVTLNRSVIA SLAIMLFCVGERPS 254
Db 179 ETSWQSQSTQVQHSYTDGVNPPFLRAISTGNFVTLNRSVIA SLAIMLFCVGERPS 235

RESULT 4

US-08-378-761A-71
; Sequence 71, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378, 761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 250 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-71

Query Match 35.9%; Score 466.5; DB 1; Length 250;
Best Local Similarity 43.1%; Pred. No. 5.4e-41;
Matches 109; Conservative 37; Mismatches 80; Indels 27; Gaps 7;

Qy 9 THQTTGDEYFRFTLLRDYVSSGFSNEIPLLRQSTIPVSDAQRFLVVELTNQGDSTAA 68
Db 9 TEGATSQSYKQFIEALRRLR--RGLIHIDIPVLPDPT--TLQERNRYITVELSNSDTSIEV 66

[illegible]

RESULT 5

US-08-485-286-71
 : Sequence 71, Application US/08485286
 : Patent No. 5646026
 : Patent No. 5646026 5646119
 : GENERAL INFORMATION:
 : APPLICANT: WALSH, TERENCE A
 : APPLICANT: HEY, TIMOTHY D
 : APPLICANT: MORGAN, ALICE ER
 : TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
 : PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 : TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
 : NUMBER OF SEQUENCES: 81
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: ANDREA T. BORUCKI
 : STREET: 9330 ZIONSVILLE ROAD
 : CITY: INDIANAPOLIS
 : STATE: IN
 : COUNTRY: US
 : ZIP: 46268
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patent In Release #1.0, Version #1.25
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/485,286
 : FILING DATE:
 : CLASSIFICATION: 435
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/378761
 : FILING DATE: 26-JAN-1995
 : ATTORNEY/AGENT INFORMATION:
 : NAME: BORUCKI, ANDREA T
 : REGISTRATION NUMBER: 33651
 : REFERENCE/DOCKET NUMBER: 38272B
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (317) 337-4846
 : INFORMATION FOR SEQ ID NO: 71:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 250 amino acids
 : TYPE: amino acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 : US-08-485-286-71

[illegible]

RESULT. T 6

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US-07-901-707-1
; Sequence 1, Application US/07901707
; Patent No. 5376546
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Steve F.
; APPLICANT: Lane, Julie A.
; TITLE OF INVENTION: Materials Comprising and Methods of
; Composition and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell,
; STREET: Two First National Plaza, 20 South Clark
; STREET: Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/901,707
; FILING DATE: 19920619
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5376546and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27129/30910
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-5750
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-901-707-1

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Query Match      35.98; Score 466.5; DB 1; Length 250;
Best Local Similarity 43.1%; Prd: 5.4e-41;
Matches 109; Conservative 37; Mismatches 80; Indels 27; Gaps

QY 9 THTQTGDYFFRFTILLRDVYSGSGFSNEIFLLRQSTIPVSDAQRFLVVLNQGDSDITA 68
db 9 TEGATSSQYKQFIETALRELR-RCGLIHDIVLPDPT-TLOERNRVITVELSNSDTEGV 66

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Query Match          30.5%; Score 396; DB 1; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;

QY 9 THQTGDEYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAORFVLVELTNGQDSI 66
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
db 13 TAGATVQSNTNFTRAVYGRGLTTGADVHEHIVPLPNRVGLPIN--ORFVLNLSHAELSV 70
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

[illegible]

```

RESULT 7
US-07-988-430-1
; Sequence 1, Application US/07988430
; Patent No. 5416202
; GENERAL INFORMATION:
; APPLICANT: Bernhard, Susan L.
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Lane, Julie A.
; APPLICANT: Lei, Shau-Ping
; TITLE OF INVENTION: Materials Comprising and Methods of
; Preparation and Use for Ribosome-Inactivating Proteins
; NUMBER OF SEQUENCES: 101
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/988,430
; FILING DATE: 19921209
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5416202and, Greta E.
; REGISTRATION NUMBER: 35502
; REFERENCE/DOCKET NUMBER: 31133
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-988-430-1

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1  RESULT 8
2  US-08-218-303-16
3  ; Sequence 16, Application US/08218303
4  ; Patent No. 5547867
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Kara. Bhupendra V.
7  ; APPLICANT: Hockney, Robert C.
8  ; APPLICANT: Fitton, John E.
9  ; TITLE OF INVENTION: FERMENTATION PROCESS
10 ; NUMBER OF SEQUENCES: 23
11 ; CORRESPONDENCE ADDRESS:
12 ; ADDRESSEE: Cushman, Darby & Cushman
13 ; STREET: 1615 L Street, N.W.
14 ; CITY: Washington
15 ; STATE: D.C.
16 ; COUNTRY: U.S.A.
17 ; ZIP: 20036-5601
18 ; COMPUTER READABLE FORM:
19 ; MEDIUM TYPE: Floppy disk
20 ; COMPUTER: IBM PC compatible
21 ; OPERATING SYSTEM: PC-DOS/MS-DOS
22 ; SOFTWARE: Patent in Release #1.0, Version #1.25
23 ; CURRENT APPLICATION DATA:
24 ; APPLICATION NUMBER: US/08/218,303
25 ; FILING DATE:
26 ; CLASSIFICATION: 435
27 ; PRIOR APPLICATION DATA:
28 ; APPLICATION NUMBER: US 07/841,533
29 ; FILING DATE: 26-FEB-1992
30 ; ATTORNEY/AGENT INFORMATION:
31 ; NAME: Kokulis, Paul N.
32 ; REGISTRATION NUMBER: 16,773
33 ; REFERENCE/DOCKET NUMBER: PNK/3893/94908/MJW
34 ; TELECOMMUNICATION INFORMATION:
35 ; TELEPHONE: 202-861-3000
36 ; TELEFAX: 202-822-0944
37 ; TELEX: 6714627 CUSH
38 ; INFORMATION FOR SEQ ID NO: 16:
39 ; SEQUENCE CHARACTERISTICS:
40 ; LENGTH: 267 amino acids
41 ; TYPE: amino acid
42 ; TOPOLOGY: linear
43 ; MOLECULE TYPE: protein
44 ; MS-08-218-303-16

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Query Match 30.5%; Score 396; DB 1; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches -9; Indels 12; Gaps

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Db 13 TAGATVQSYTNFIRAVRGLTTGADVRHEIFVLPNVRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNAVYVQAGDSYFLR-DAPRGAE--THLFTGTTDRSSLPFTGYSYTDLERY 123
Db 71 TLALDVTNAVYVGRAGNSAYFFHPDNQDEAETHLFT-DVQNRVTFAPGNYDRLEQL 129
QY 124 AGH-RDQIPGLIEQLIQSVLSALRY---PGSSTRAQARSILILIQMISEAARFNPILWRYR 179
Db 130 AGNLENIELGNGLPEBAISALVYVYSTGGTQLPTLARSFICIQMISEAARFVIEGMR 189
QY 180 QDINSGESFLPDYMLELTSWQOOSTQVQVHSTGVPNPPFLAISTGNEFVILSNVRSVI 239
Db 190 TRIRYNRSAPDPSPVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSVYDVSI 249
QY 240 ASLAIMLFVCGERPSS 255
Db 250 PIALMWYRCAPPSS 265

RESULT 9
US-08-425-336-1
; Sequence 1, Application US/08425336
; Patent No. 5621083
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 140
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/425,336
; FILING DATE: 18-APR-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/064,691
; FILING DATE: 12-MAY-1993
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Thomas C.
; REGISTRATION NUMBER: P-36,989
; REFERENCE/DOCKET NUMBER: 31394
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-425-336-1

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Query Match 30.5%; Score 396; DB 1; Length 267;
 Best Local Similarity 40.2%; Pred. No. 1.5e-33;

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Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;
QY 9 THQTTGDYFFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVLTNQGDQSI 66
Db 13 TAGATVQSYTNFIRAVRGLTTGADVRHEIFVLPNVRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNAVYVQAGDSYFLR-DAPRGAE--THLFTGTTDRSSLPFTGYSYTDLERY 123
Db 71 TLALDVTNAVYVGRAGNSAYFFHPDNQDEAETHLFT-DVQNRVTFAPGNYDRLEQL 129
QY 124 AGH-RDQIPGLIEQLIQSVLSALRY---PGSSTRAQARSILILIQMISEAARFNPILWRYR 179
Db 130 AGNLENIELGNGLPEBAISALVYVYSTGGTQLPTLARSFICIQMISEAARFVIEGMR 189
QY 180 QDINSGESFLPDYMLELTSWQOOSTQVQVHSTGVPNPPFLAISTGNEFVILSNVRSVI 239
Db 190 TRIRYNRSAPDPSPVITLNSWGRSLTAIQESNOGAFASPIQLQRRNGSKFSVYDVSI 249
QY 240 ASLAIMLFVCGERPSS 255
Db 250 PIALMWYRCAPPSS 265

RESULT 10
US-08-488-113B-1
; Sequence 1, Application US/08488113B
; Patent No. 5744580
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,113B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/425,336
; FILING DATE: 18-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248

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; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-488-1138-1

Query Match          30.5%; Score 396; DB 1; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;

Qy 9 THQTGDEYFFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNGQDSI 66
Db 13 TAGATVQSYTNFIRAVGRLLTGADVRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70
Qy 67 TAAIDVTNAYVAVQGDQSYFLR-DAPRGAE--THLFTGTTDRDRSLPFTGYSYDLERY 123
Db 71 TLALDVTNAYVGVGRAGNSAYFFHPDQDEAETHLFT-DVQNRXYTFAFGGNYDRLEQL 129
Qy 124 AGH-RDQIPLGIEQLIQSVSALRY---PGGSTRAQAARSILILQIMISEAARFNPILMYR 179
Db 130 AGNLRNIELGNGLPEEAISALYYVYSTGGTQLPTLARSFIIQIMISEAARFQVIEGMR 189
Qy 180 QDINGSSEFLPDMYMLETSWQSQSTQVQHSITDGVFNPNPRLAISTGNFVTLNRSVI 239
Db 190 TRIRYNRSAPDPSVITLNSWGLRLSTAIQESNQGFASPIQLQRRNGSKFSVYDVSI 249
Qy 240 ASLAIMLFVCGERPSS 255
Db 250 PIIALMVYRCAPPSS 265

RESULT 11
US-08-477-484B-1
; Sequence 1, Application US/08477484B
; Patent No. 5756699
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,484B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/425,336
; FILING DATE: 18-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
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; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-9155
; TELEFAX: 312/707-8889
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-484B-1

Query Match          30.5%; Score 396; DB 1; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;

Qy 9 THQTGDEYFFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRFLVELTNGQDSI 66
Db 13 TAGATVQSYTNFIRAVGRLLTGADVRHEIPVLPNRVGLPIN--QRFILVELSNHAELSV 70
Qy 67 TAAIDVTNAYVAVQGDQSYFLR-DAPRGAE--THLFTGTTDRDRSLPFTGYSYDLERY 123
Db 71 TLALDVTNAYVGVGRAGNSAYFFHPDQDEAETHLFT-DVQNRXYTFAFGGNYDRLEQL 129
Qy 124 AGH-RDQIPLGIEQLIQSVSALRY---PGGSTRAQAARSILILQIMISEAARFNPILMYR 179
Db 130 AGNLRNIELGNGLPEEAISALYYVYSTGGTQLPTLARSFIIQIMISEAARFQVIEGMR 189
Qy 180 QDINGSSEFLPDMYMLETSWQSQSTQVQHSITDGVFNPNPRLAISTGNFVTLNRSVI 239
Db 190 TRIRYNRSAPDPSVITLNSWGLRLSTAIQESNQGFASPIQLQRRNGSKFSVYDVSI 249
Qy 240 ASLAIMLFVCGERPSS 255
Db 250 PIIALMVYRCAPPSS 265

RESULT 12
US-08-646-360-1
; Sequence 1, Application US/08646360
; Patent No. 5837491
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 173
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,360
; FILING DATE: 13-MAY-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05348
; FILING DATE: 12-MAY-1994
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 200-70.P4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-646-360-1

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Query Match 30.5%; Score 396; DB 2; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;

QY 9 THQTTGDEYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAORFVLVELTNQGDSSI 66
DB 13 TAGATVQSYTNFTRAVRGRLLTGADVRHEIPVLPNVRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNAVYVAYQAGDSYFLR-DAPRGAE--THLFTGTTDRSSLPTGTYDLELY 123
DB 71 TLALDVTNAVYVGRAGNSAYFFHPDQEDAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPGIGIOLIOSVSAIRY---PGSTRAQARSILILIOISEAARFNPILWRYR 179
DB 130 AGNLRNIELNGPFLBEEAISALYYSTGGTQLPTLARSFFIICQIMISEAARFQIEGMR 189
QY 180 QDINSGESFLPDWYMLELTSWQSQSTOVQHSITDGVFNPNPRLAISTGNFVTLNVRSVI 239
DB 190 TRIRYNRSAPDPSVITLNSWGLRLTAIOESNQGFASPIQLORRNGSKFSYVDVSILI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIIALMVYRCAPPSS 265

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RESULT 13
US-08-338-793D-61
; Sequence 61, Application US/08338793D
; Patent No. 5840521
; GENERAL INFORMATION:
; APPLICANT: Barth, Peter Thomas
; TITLE OF INVENTION: VECTOR
; NUMBER OF SEQUENCES: 61
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DABRY CUSHMAN
; ADDRESS: INTELLECTUAL PROPERTY GROUP OF
; ADDRESSEE: PILLSBURY MADISON & SUTRO, L.L.P.
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
; COMPUTER: IBM PC/XT/AT Compatibles

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; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word or ASCII editors
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/338,793D
; FILING DATE: 08-NOV-94
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/842,081
; FILING DATE: 26-FEB-92
; CLASSIFICATION: 435
; APPLICATION NUMBER: 9104017.0
; FILING DATE: 26-FEB-91
; APPLICATION NUMBER: 9109188.4
; FILING DATE: 29-APR-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Kukulis, Paul N.
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: DJB/9901/215431/TGW
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 6714627 CUSH
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 61:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; US-08-338-793D-61

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Query Match 30.5%; Score 396; DB 2; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;

QY 9 THQTTGDEYFRFTLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAORFVLVELTNQGDSSI 66
DB 13 TAGATVQSYTNFTRAVRGRLLTGADVRHEIPVLPNVRVGLPIN--QRFILVELSNHAELSV 70
QY 67 TAAIDVTNAVYVAYQAGDSYFLR-DAPRGAE--THLFTGTTDRSSLPTGTYDLELY 123
DB 71 TLALDVTNAVYVGRAGNSAYFFHPDQEDAEATHLFT-DVQNRVYTFAGGNYDRLEQL 129
QY 124 AGH-RDQIPGIGIOLIOSVSAIRY---PGSTRAQARSILILIOISEAARFNPILWRYR 179
DB 130 AGNLRNIELNGPFLBEEAISALYYSTGGTQLPTLARSFFIICQIMISEAARFQIEGMR 189
QY 180 QDINSGESFLPDWYMLELTSWQSQSTOVQHSITDGVFNPNPRLAISTGNFVTLNVRSVI 239
DB 190 TRIRYNRSAPDPSVITLNSWGLRLTAIOESNQGFASPIQLORRNGSKFSYVDVSILI 249
QY 240 ASLAIMLFVCGERPSS 255
DB 250 PIIALMVYRCAPPSS 265

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RESULT 14
US-08-839-765-1
; Sequence 1, Application US/08839765
; Patent No. 6146631
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661

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;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US 08/839,765
;; FILING DATE: 15-APR-1997
;; CLASSIFICATION: 530
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/425,336
;; FILING DATE: 18-APR-1995
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/064,691
;; FILING DATE: 12-MAY-1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/988,430
;; FILING DATE: 09-DEC-1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/901,707
;; FILING DATE: 19-JUN-1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/787,567
;; FILING DATE: 04-NOV-1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: McNicholas, Janet M.
;; REGISTRATION NUMBER: 32,918
;; REFERENCE/DOCKET NUMBER: 11022US09/200-70.P3.C3
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 312/707-8889
;; TELEFAX: 312/707-9155
;; TELEX: 650 388-1248
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 267 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-839-765-1

Query Match 30.5%; Score 396; DB 4; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;

QY 9 THQTTGDEYFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRVFLVELTNQGDQSI 66
Db 13 TAGATVQSYTNFIRAVRGLTTGADVRRHEIPVLPNRVGLPIN--QRFLVELSNHAELSV 70

QY 67 TAAIDVTNAYVAYOAGQDSYFLR-DAPRGAE--THLFTGTTDRDSSLPTGSGYTDLERY 123
Db 71 TLALDVTNAYVVGVRAGNSAYFFPHDQEDAEATHLFT-DVQNRYYTFAFGGNYDRLEQL 129

QY 124 AGH-RDQIPLGIEQLIQSVSALRY---PGGSTRAQAARSILILQIMISEAARFNPIILWRYR 179
Db 130 AGNLRNIELNGPLLEBAISALYYSTGTTPLARSFICIMISEAARFQYIEGEMR 189

QY 180 QDINSGESFLPDMYMLETSGWQOSTQVQSHSTGVFNPNPRLAISTGNFVTLNSNRSVI 239
Db 190 TRIYRNRASDPSPVITLNSWGRLSATAIQESNQAFASPIQLQRRNGSKFSVVDVSILI 249

QY 240 ASLAIMLVCGGERPSS 255
Db 250 PIILMVYRCAPPSS 265

RESULT 15

US-09-136-389-1
; Sequence 1, Application US/09136389
; Patent No. 614850
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.

;; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
;; TITLE OF INVENTION: Proteins
;; NUMBER OF SEQUENCES: 173
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
;; STREET: 500 West Madison Street, 34th floor
;; CITY: Chicago
;; STATE: Illinois
;; COUNTRY: USA
;; ZIP: 60661
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US 09/136,389
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/646,360
;; FILING DATE: 13-MAY-1996
;; APPLICATION NUMBER: PCT/US94/05348
;; FILING DATE: 12-MAY-1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/064,691
;; FILING DATE: 12-MAY-1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/988,430
;; FILING DATE: 09-DEC-1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/901,707
;; FILING DATE: 19-JUN-1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/787,567
;; FILING DATE: 04-NOV-1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: McNicholas, Janet M.
;; REGISTRATION NUMBER: 32,918
;; REFERENCE/DOCKET NUMBER: 200-70.P4
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 312/707-8889
;; TELEFAX: 312/707-9155
;; TELEX: 650 388-1248
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 267 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-09-136-389-1

Query Match 30.5%; Score 396; DB 4; Length 267;
Best Local Similarity 40.2%; Pred. No. 1.5e-33;
Matches 103; Conservative 45; Mismatches 96; Indels 12; Gaps 8;

QY 9 THQTTGDEYFRITLLRDYVSSGS-FSNEIPLL-RQSTIPVSDAQRVFLVELTNQGDQSI 66
Db 13 TAGATVQSYTNFIRAVRGLTTGADVRRHEIPVLPNRVGLPIN--QRFLVELSNHAELSV 70

QY 67 TAAIDVTNAYVAYOAGQDSYFLR-DAPRGAE--THLFTGTTDRDSSLPTGSGYTDLERY 123
Db 71 TLALDVTNAYVVGVRAGNSAYFFPHDQEDAEATHLFT-DVQNRYYTFAFGGNYDRLEQL 129

QY 124 AGH-RDQIPLGIEQLIQSVSALRY---PGGSTRAQAARSILILQIMISEAARFNPIILWRYR 179
Db 130 AGNLRNIELNGPLLEBAISALYYSTGTTPLARSFICIMISEAARFQYIEGEMR 189

QY 180 QDINSGESFLPDMYMLETSGWQOSTQVQSHSTGVFNPNPRLAISTGNFVTLNSNRSVI 239
Db 190 TRIYRNRASDPSPVITLNSWGRLSATAIQESNQAFASPIQLQRRNGSKFSVVDVSILI 249

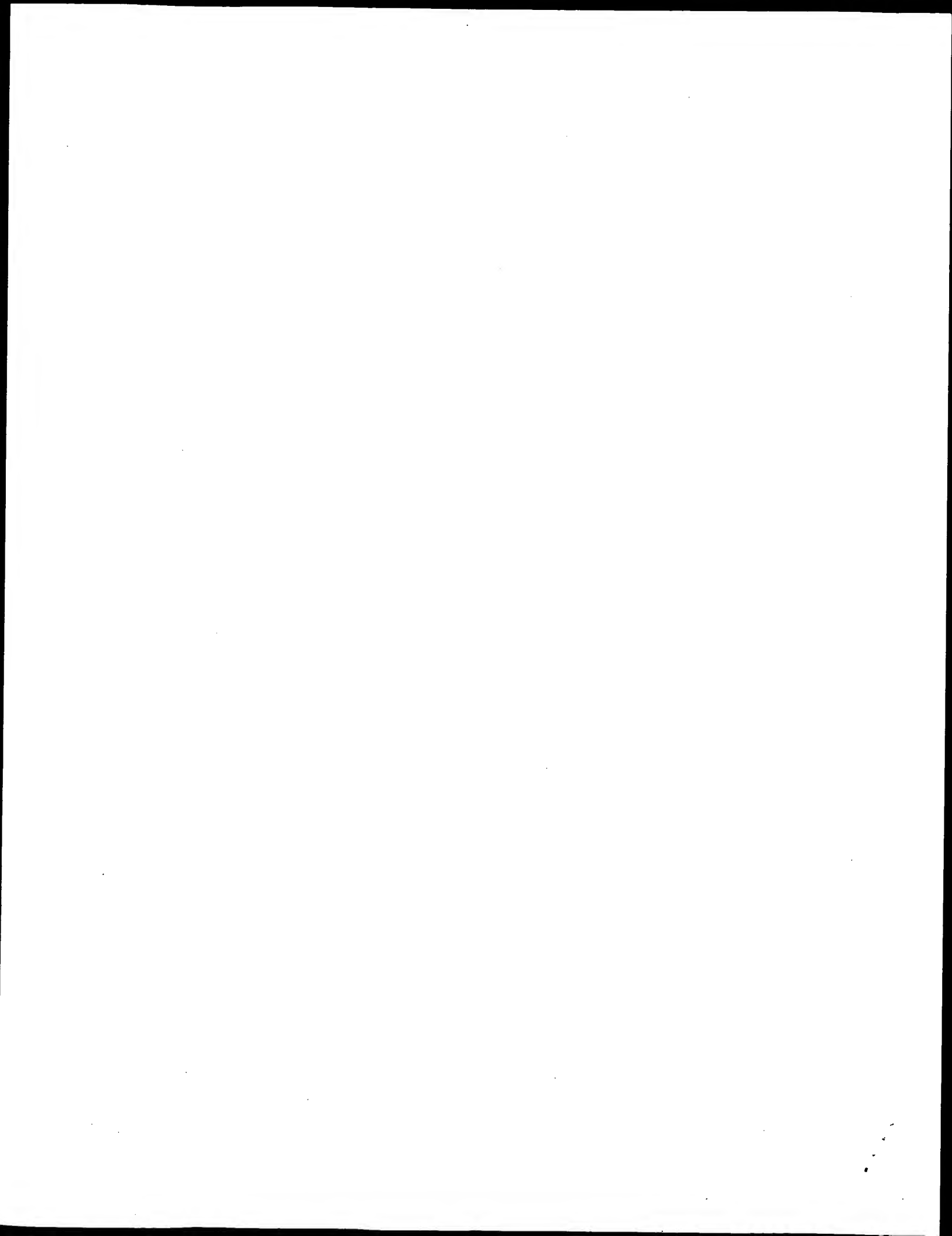
QY 240 ASLAIMLVCGGERPSS 255

Sat Mar, 22 10:41:23 2003

Db 250 PIIALMVRCAPESS 265

Search completed: March 22, 2003, 09:59:49
Job time : 8.90123 secs

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Total number of pages: 230

Remarks:

Order of re-scan issued on

